

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

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IN VITRO GROWTH OF CD4 + PERIPHERAL BLOOD T CELLS IN SERUM-FREE MEDIUM

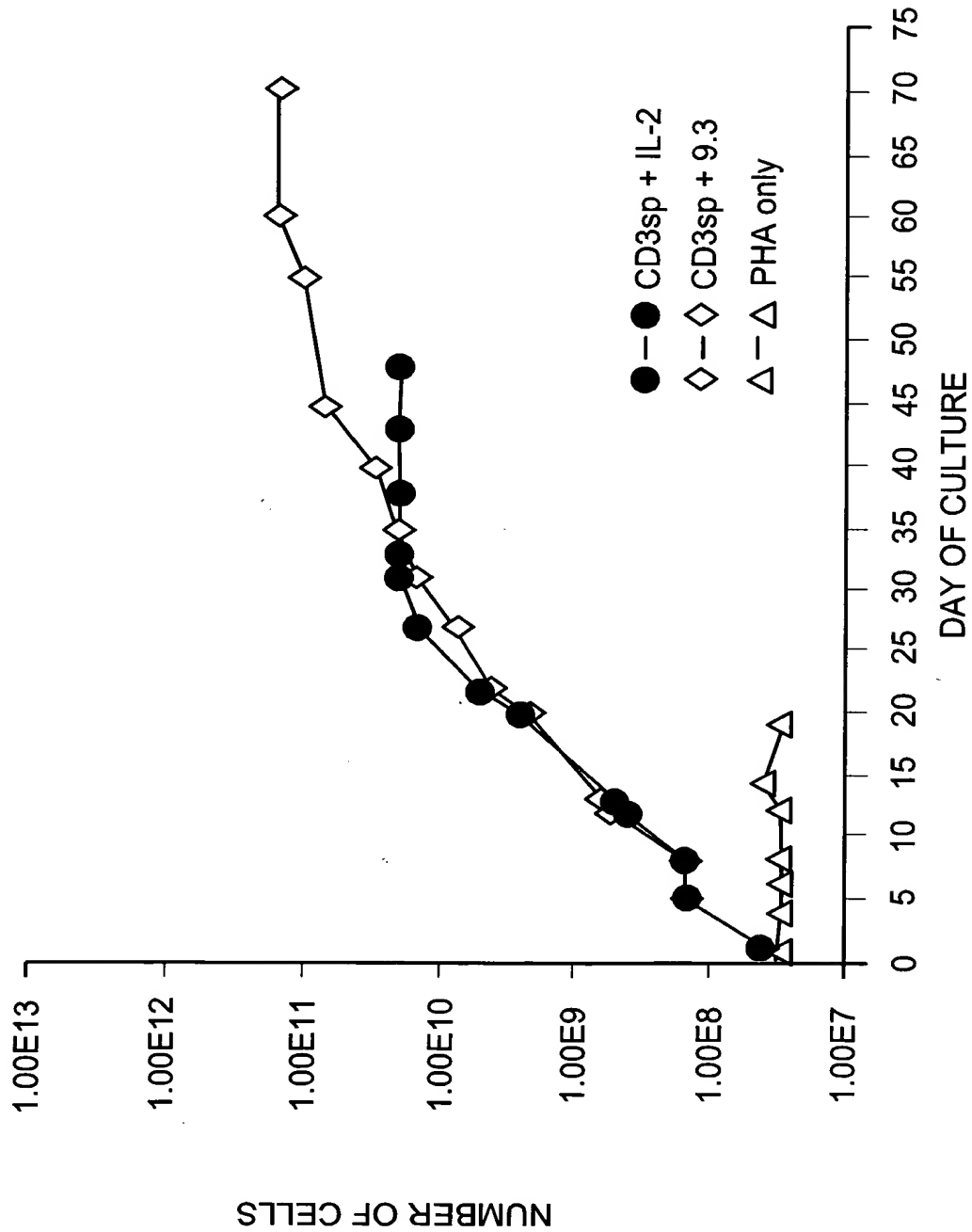


FIG. 1

RECEIVED
1980
10/10/80

APPROVED		O.G. FIG.	
BY	CLASS	SUBCLASS	
DRAFTSMAN			



GAMMA/DELTA NO. 7
(RPMI w/ 10% FCS)

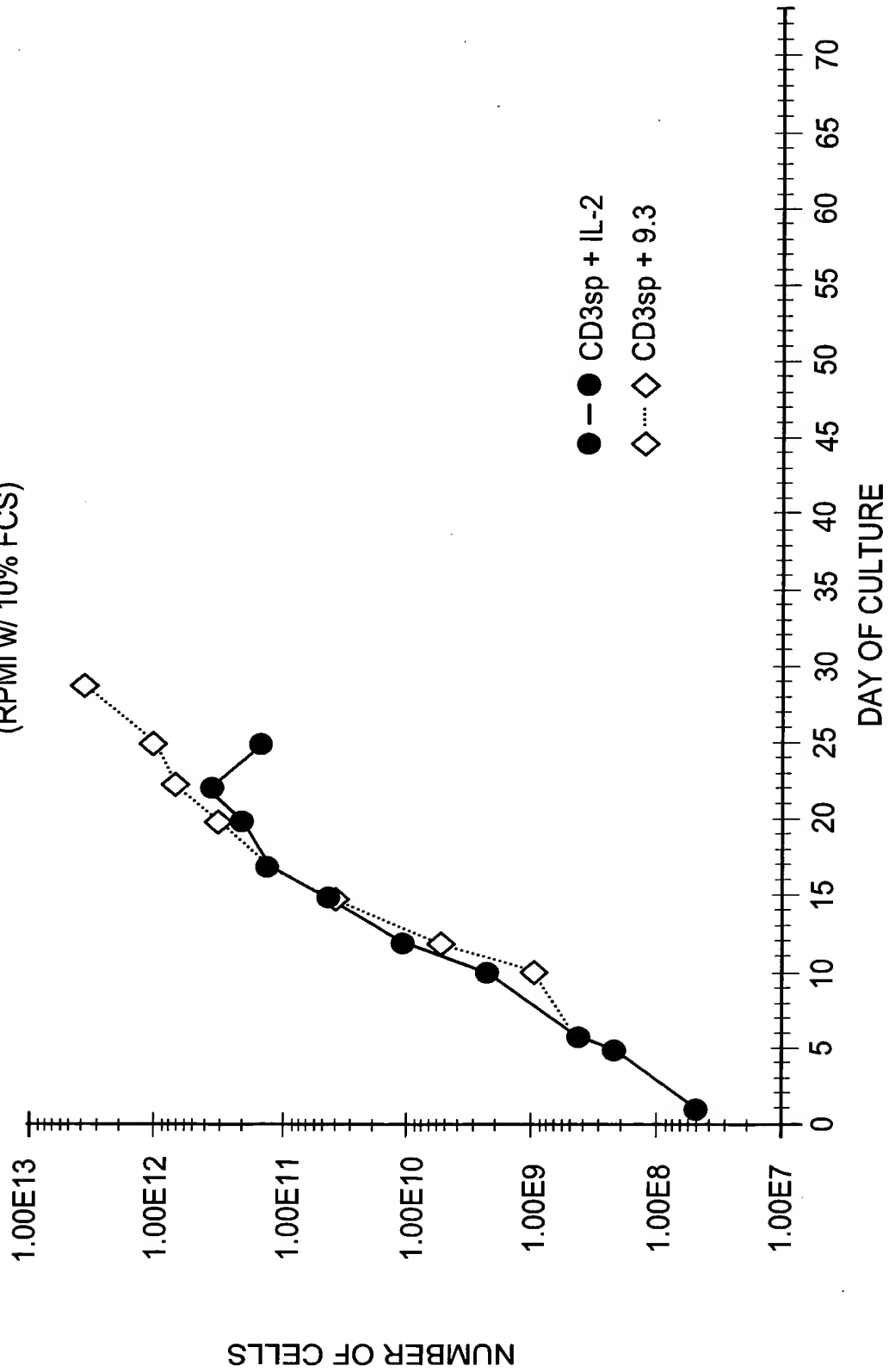


FIG. 2

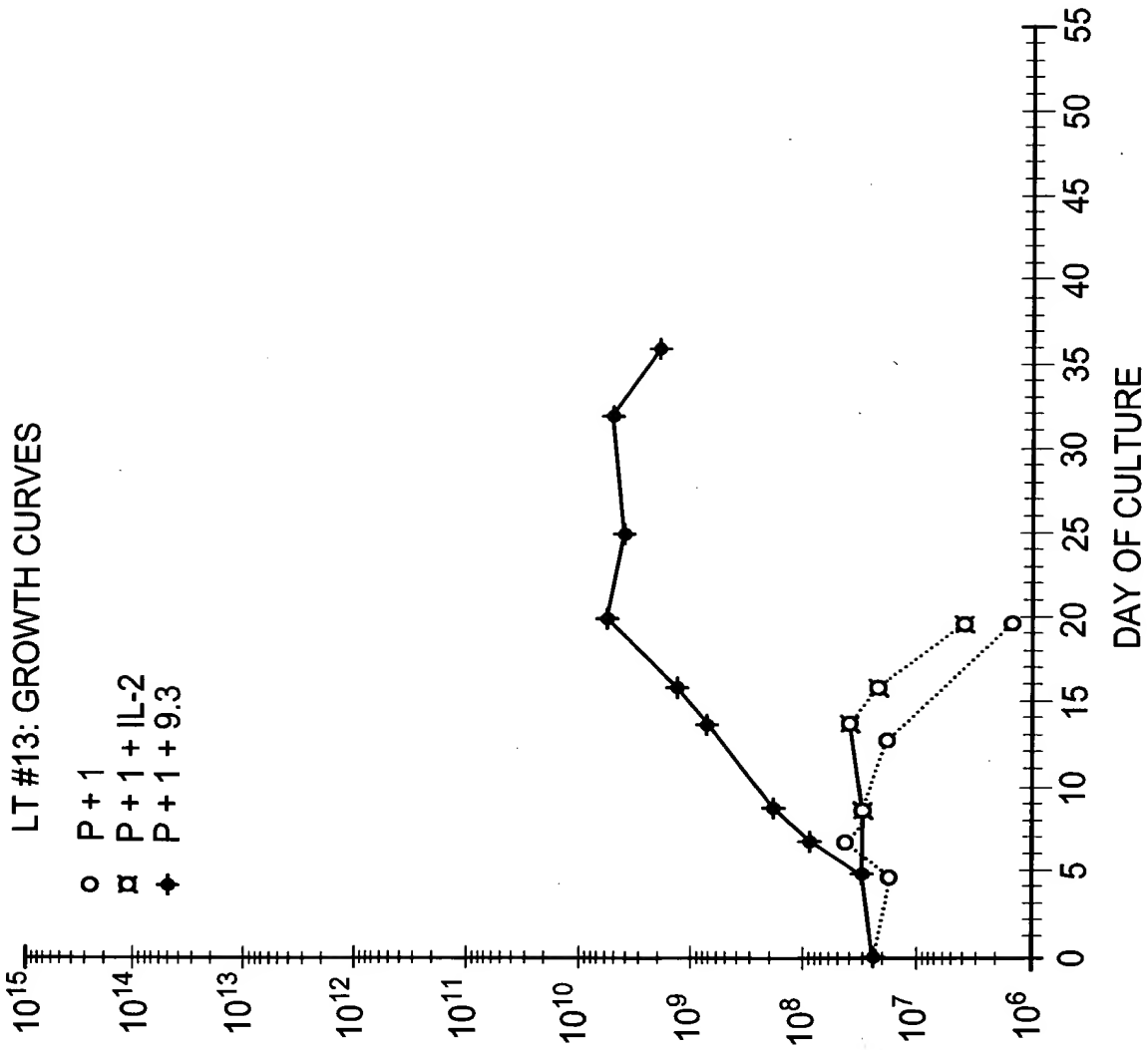


FIG. 3

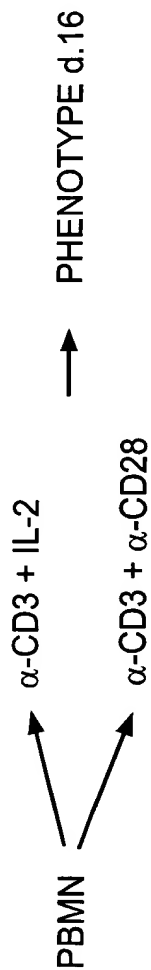
APPROVED		O. Q. FIG.	
BY	CLASS	SUBCLASS	
DRAFTSMAN			

RECEIVED
 10/10/10
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 10/10/10

SY		CLASS		SUBCLASS	
DRAFTSMAN					



SELECTIVE OUTGROWTH OF CD4⁺ T CELLS DURING
CD28 STIMULATED T CELL EXPANSION



CULTURE	DAY 0		DAY 16	
	CD4	CD8	CD4	CD8
	30.9	13.9		
CD3 + IL-2			8.0	84.5
CD3 + CD28			44.6	52.5

FIG. 4

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

CONTROL

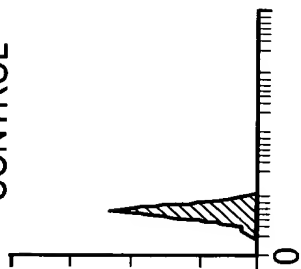


FIG. 5A-1

ANTI-CD3

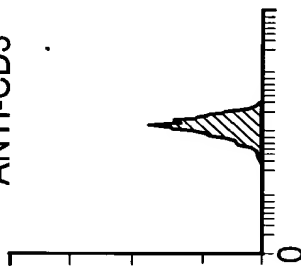


FIG. 5A-2

ANTI-CD4

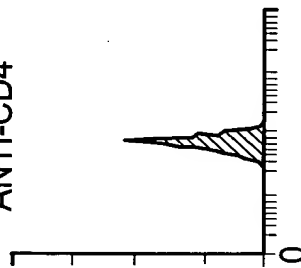


FIG. 5A-3

ANTI-CD8

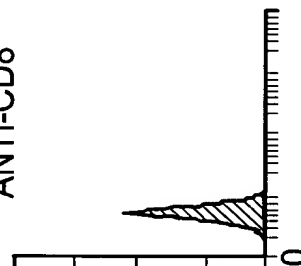


FIG. 5A-4

CD3 + CD28 DRIVEN
CELLS, DAY 26

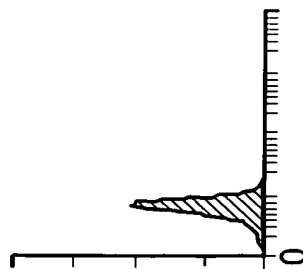


FIG. 5B-1

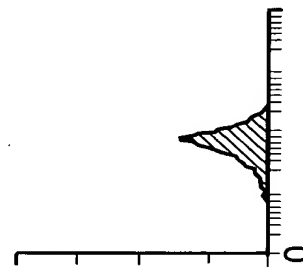


FIG. 5B-2

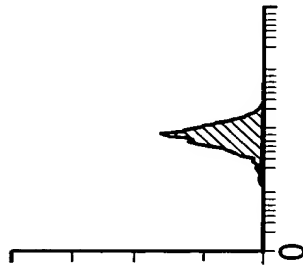


FIG. 5B-3

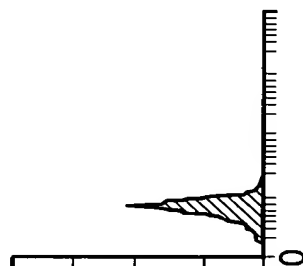


FIG. 5B-4

CD3 + IL-2 DRIVEN
CELLS, DAY 26

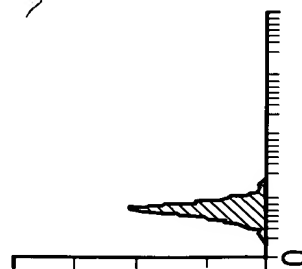


FIG. 5C-1

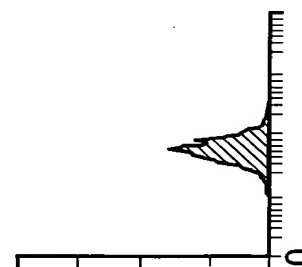


FIG. 5C-2

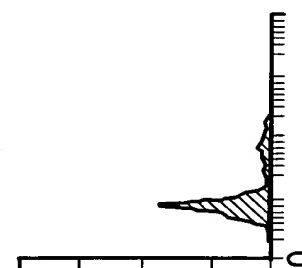


FIG. 5C-3

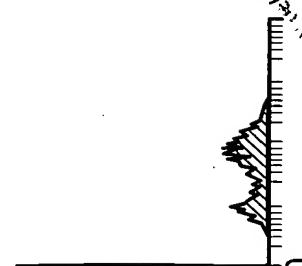


FIG. 5C-4



mAb EX5.3D10

CHO-DG44 CELLS

CHO-hh CELLS

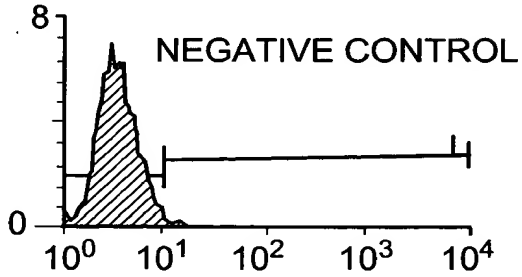


FIG. 6A-1

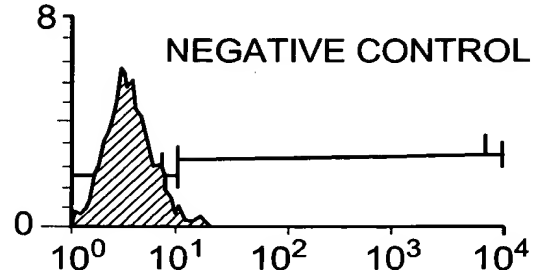


FIG. 6B-1

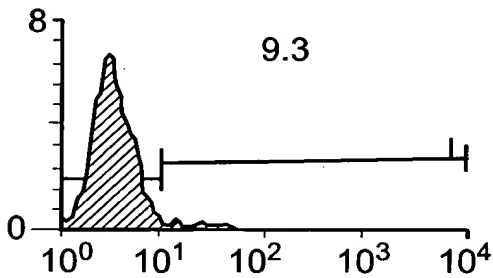


FIG. 6A-2

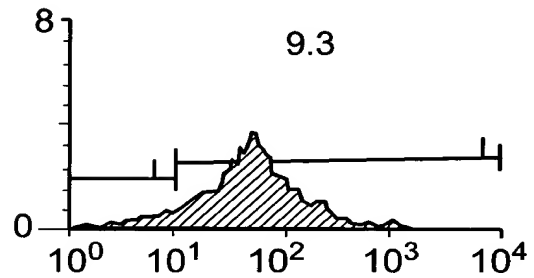


FIG. 6B-2

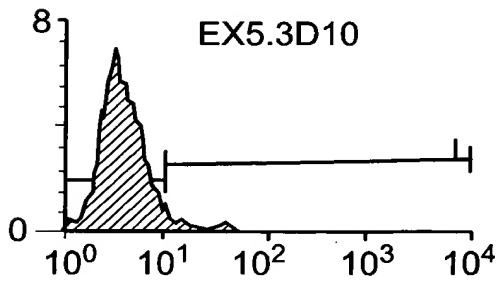


FIG. 6A-3

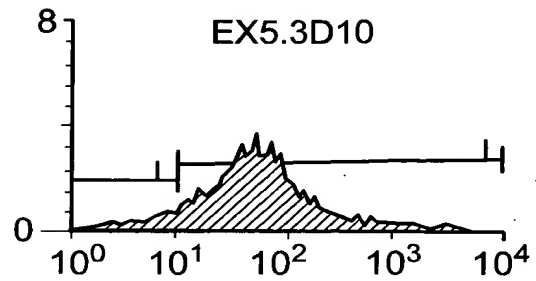


FIG. 6B-3

APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

APPROVED	O.C. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

JURKAT #7 CELLS

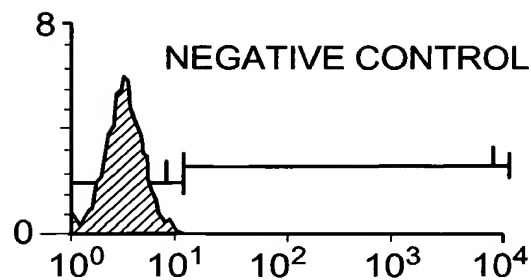


FIG. 6D-1

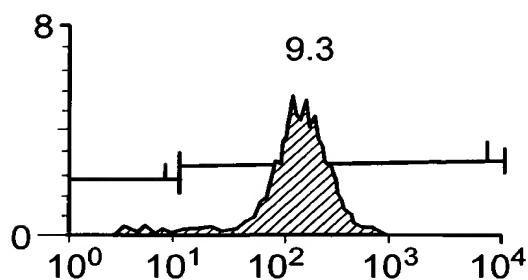


FIG. 6D-2

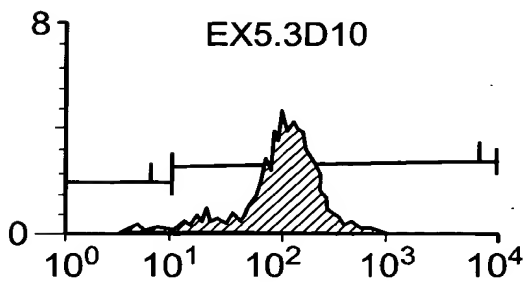
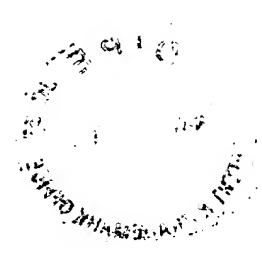


FIG. 6D-3



APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

mAb ES5.2D8
CHO-DG44 CELLS

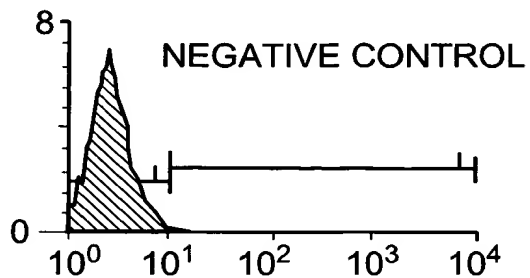


FIG. 7A-1

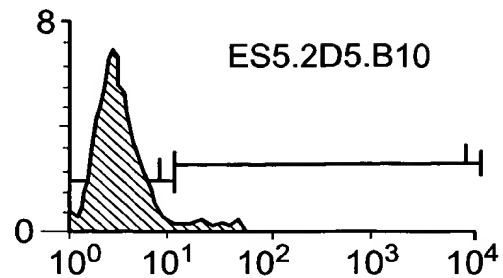


FIG. 7A-2

CHO-105A CELLS

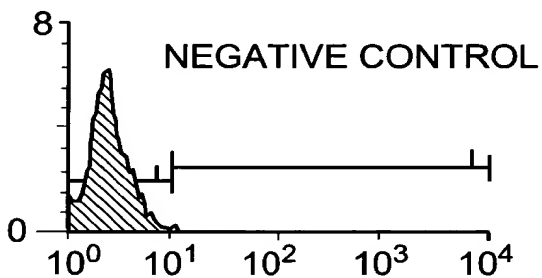


FIG. 7B-1

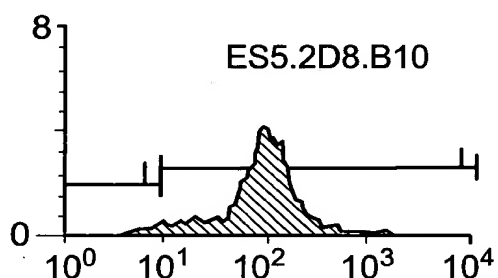


FIG. 7B-2

hPBLs:

UNACTIVATED

PMA ACTIVATED

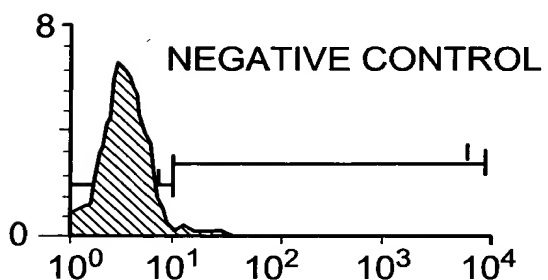


FIG. 7C

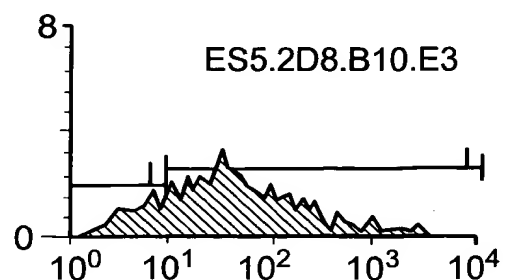


FIG. 7D

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O.G. FIG.	
CLASS	SUBCLASS
APPROVED BY DRAFTSMAN	

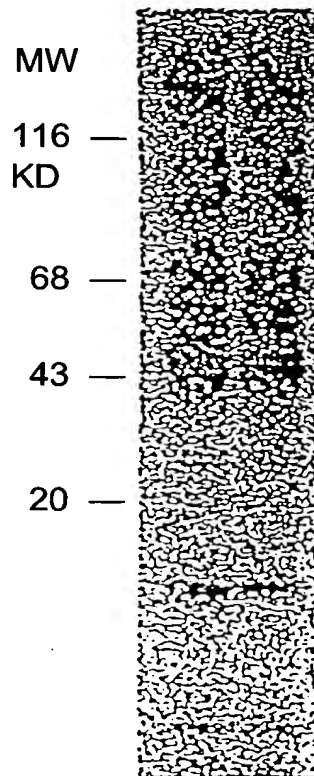


FIG. 8

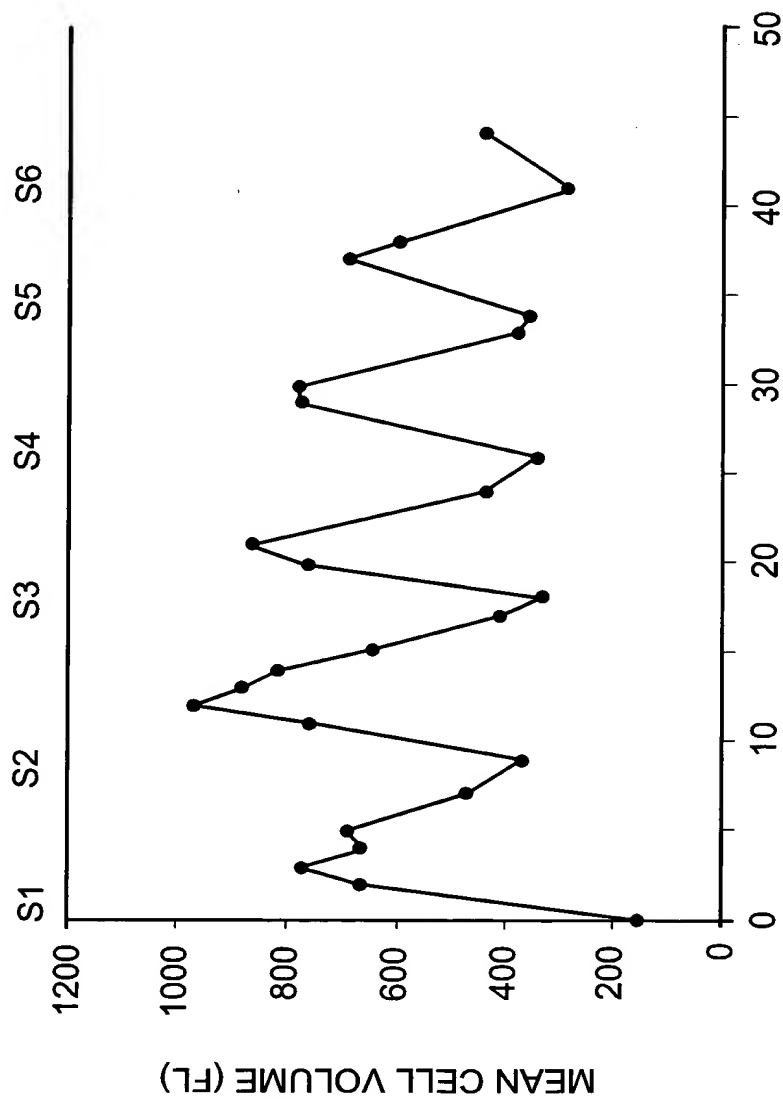
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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USE OF CELL SIZING TO PROPAGATE

CD4⁺ T CELLS



DAY OF CULTURE
 CELLS: CD28⁺/CD4⁺
 STIMULATION: CD3sp + CD28

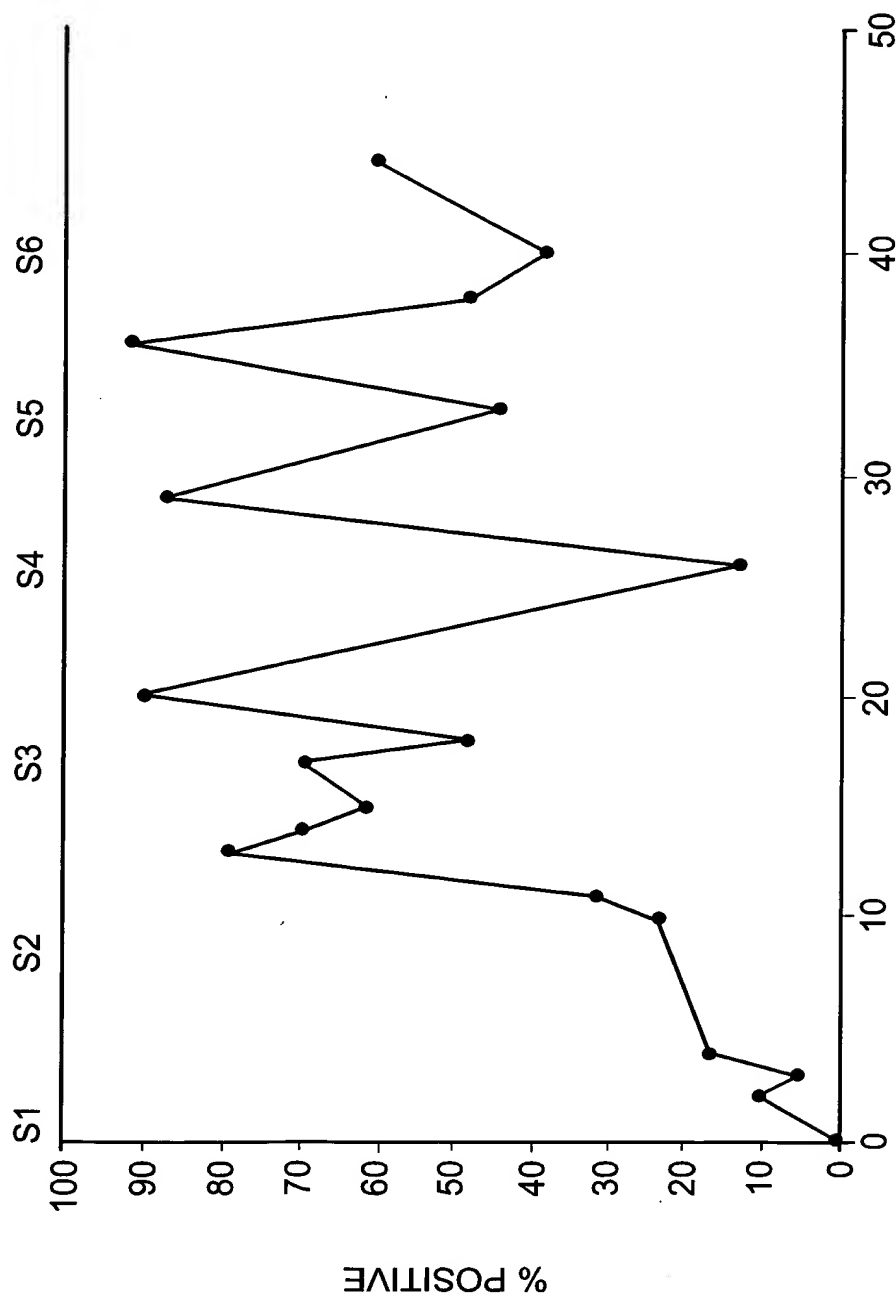
FIG. 9

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

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CYCLIC EXPRESSION OF B7 ON CD4⁺ T CELLS



DAY OF CULTURE

CELLS: CD4⁺/CD28⁺
STIMULATION: CD3sp + CD28

FIG. 10

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

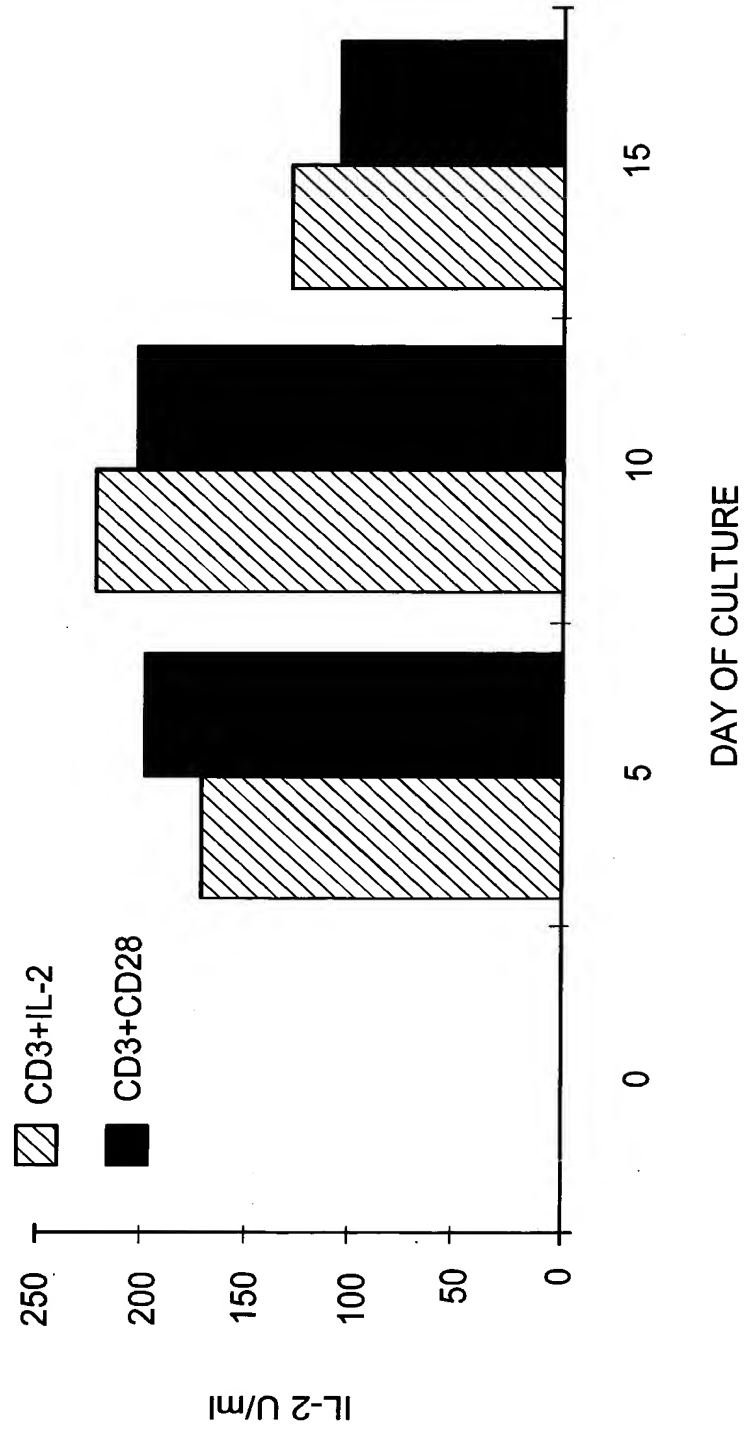


FIG. 11



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

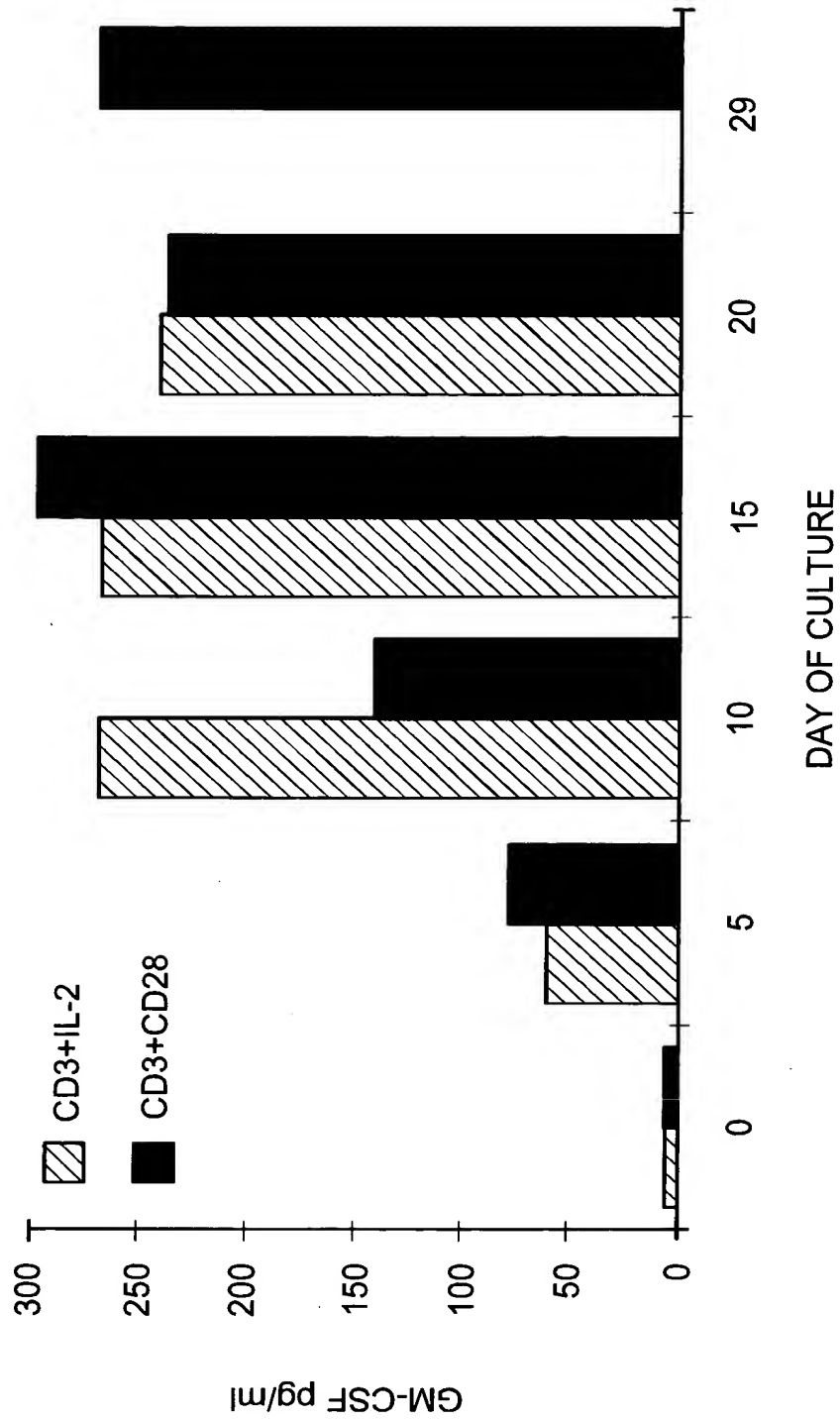


FIG. 12



O.G. FIG.		
APPROVED BY	CLASS	SUBCLASS
DRAFTSMAN		

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CYTOKINE ACCUMULATION IN CULTURE SUPERNATANTS

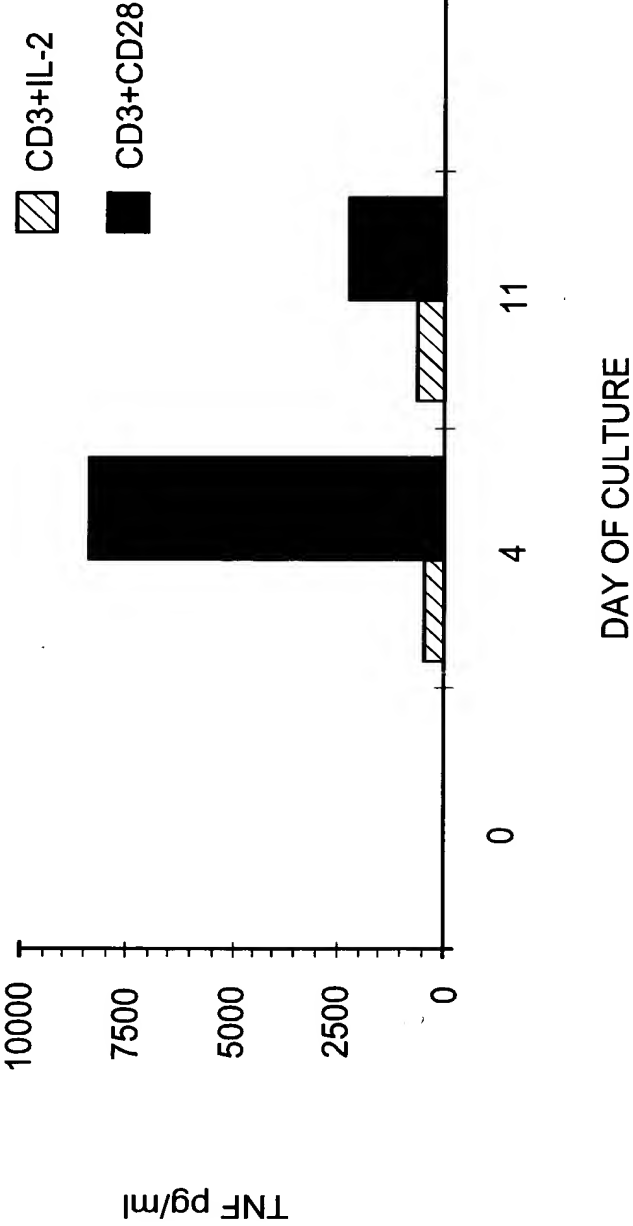
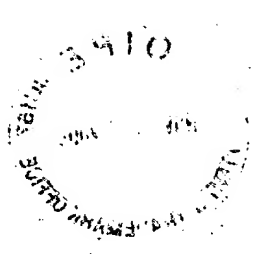


FIG. 13



O.G. FIG.		
APPROVED	BY	CLASS
DRAFTSMAN		SUBCLASS

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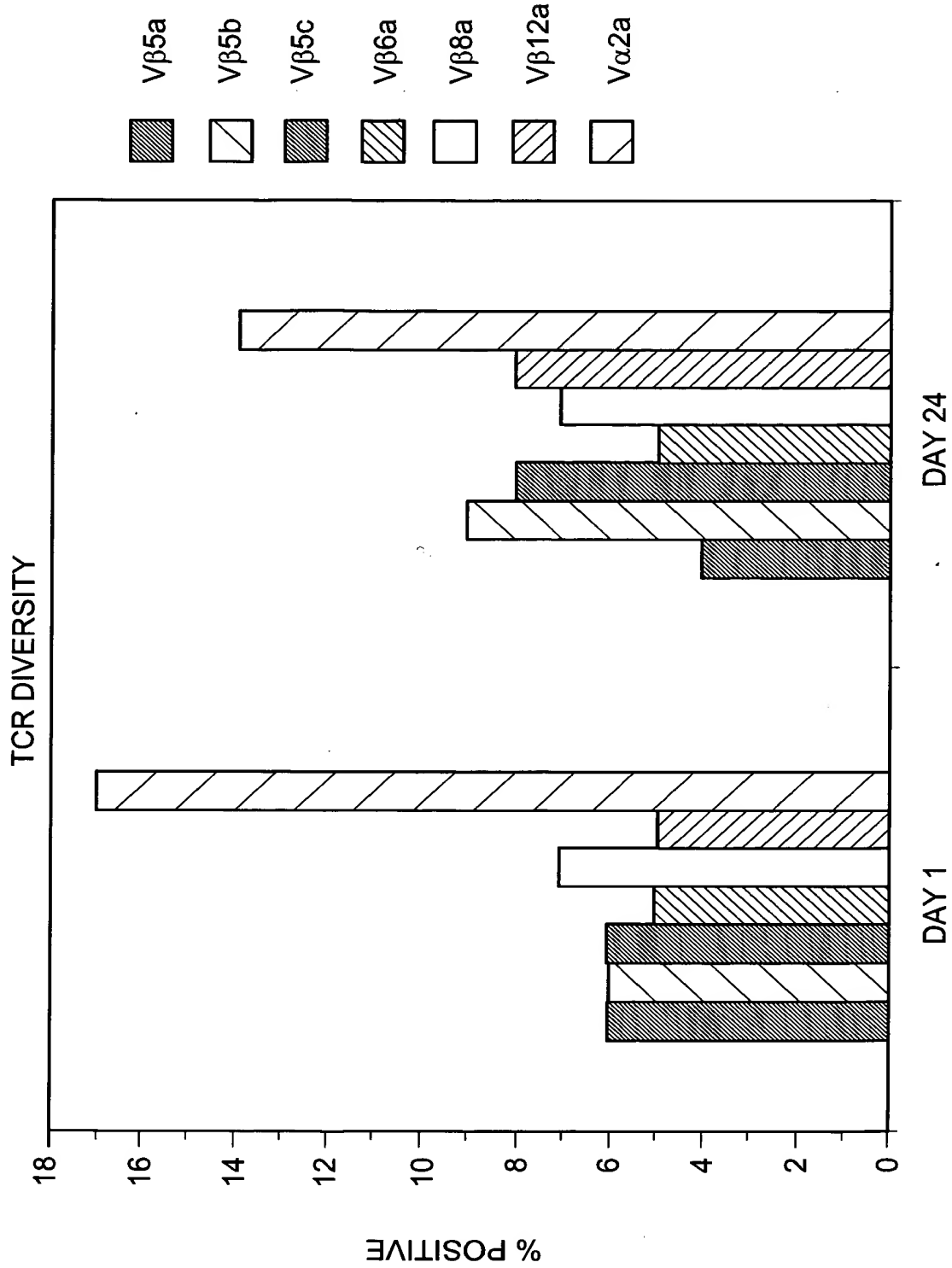


FIG. 14

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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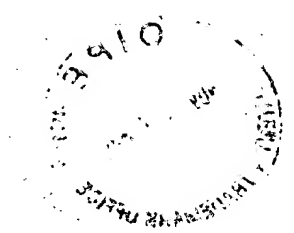
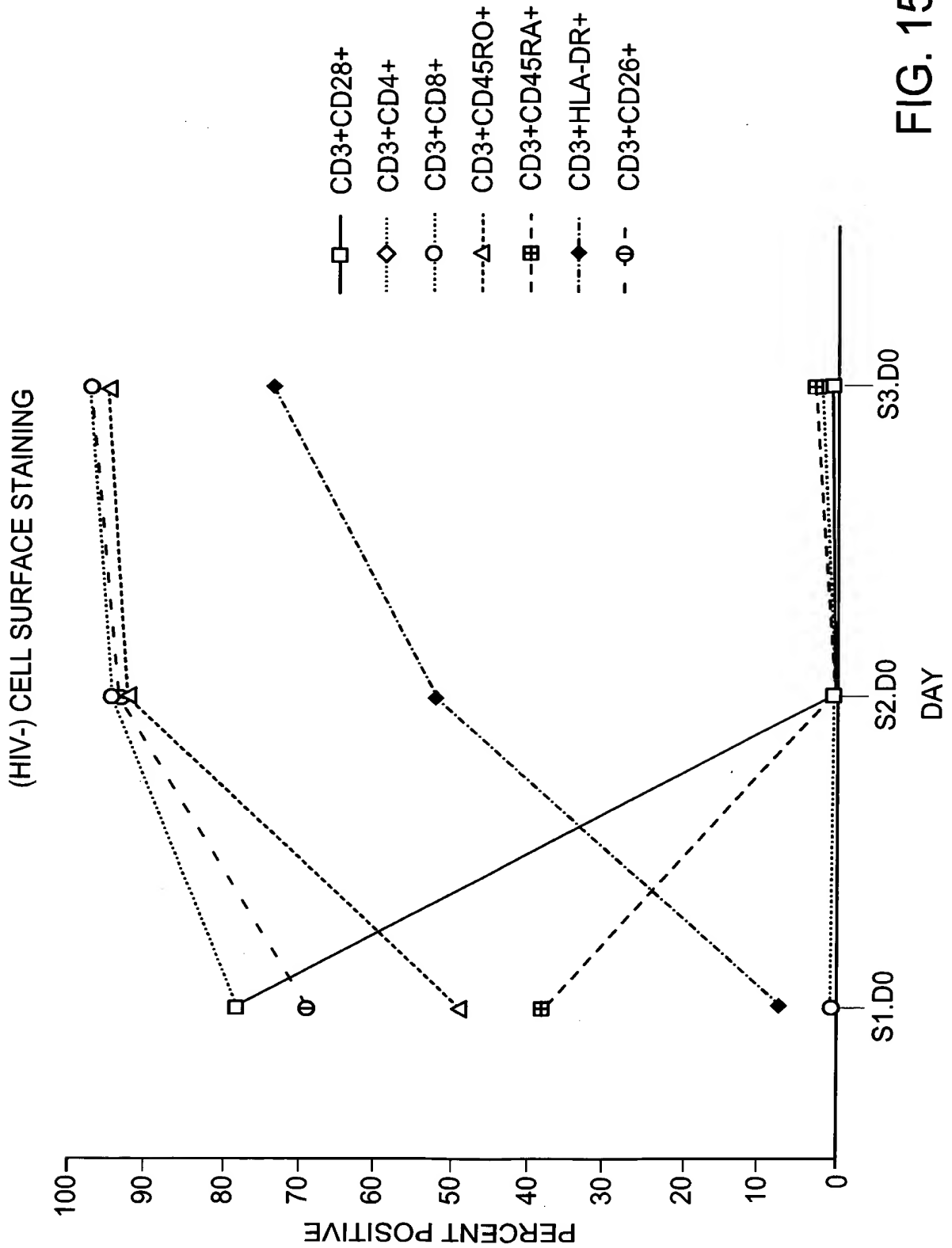


FIG. 15



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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(HIV+) CELL SURFACE STAINING

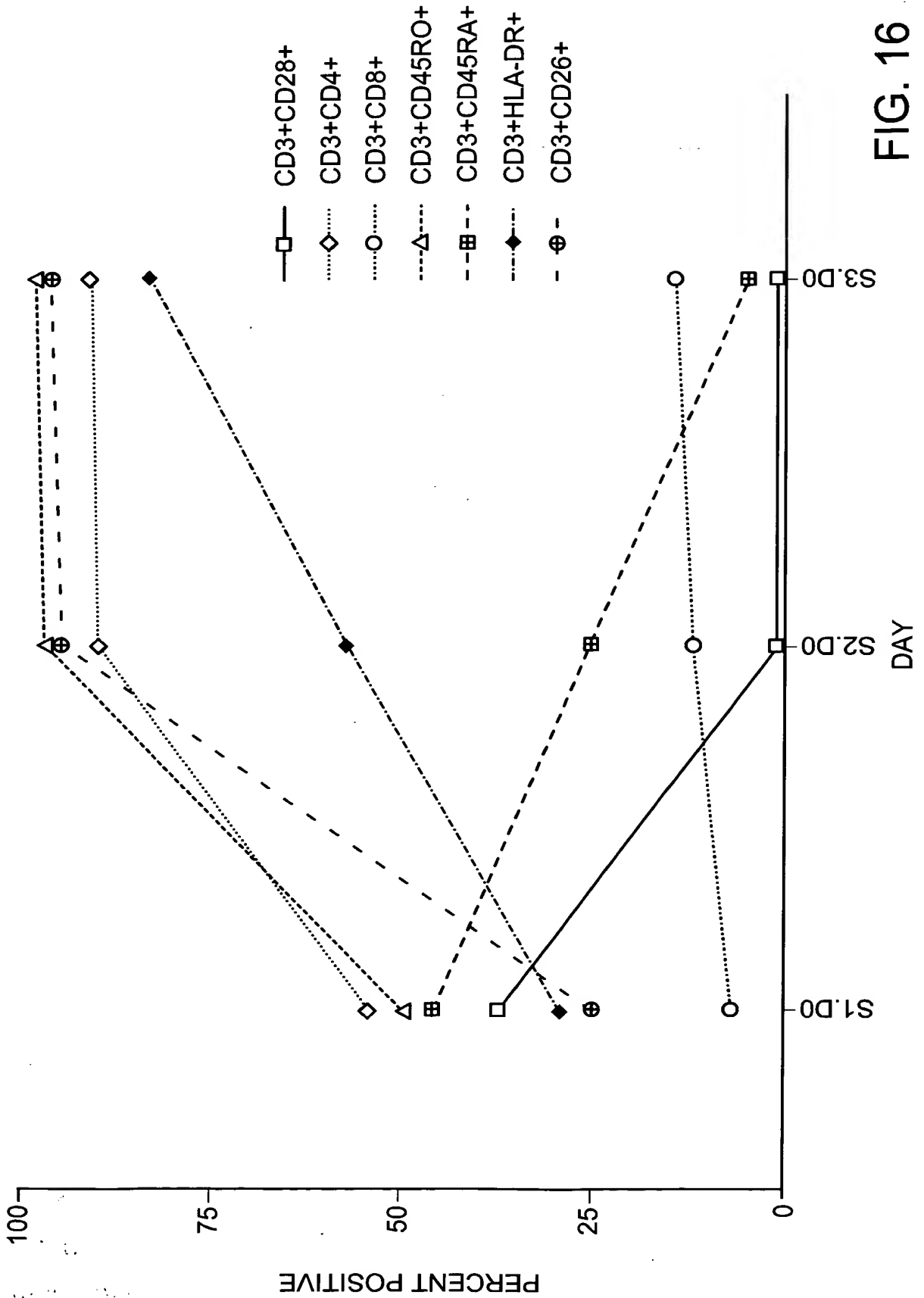
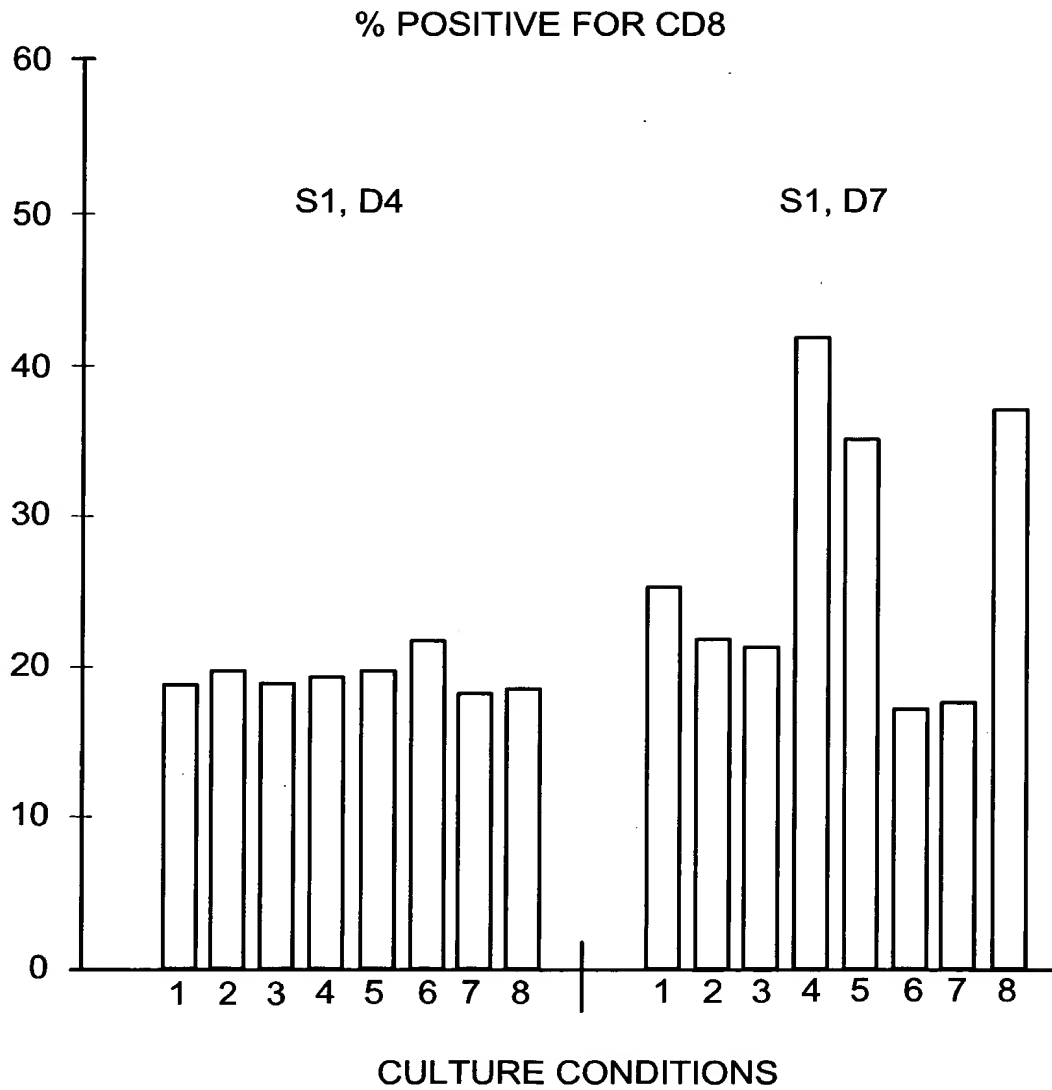


FIG. 16





APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

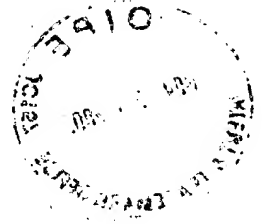
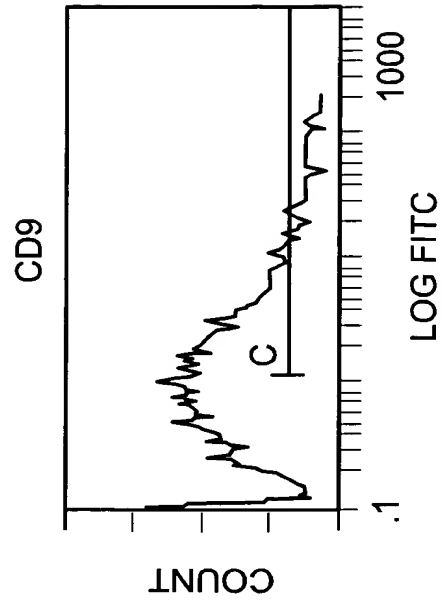
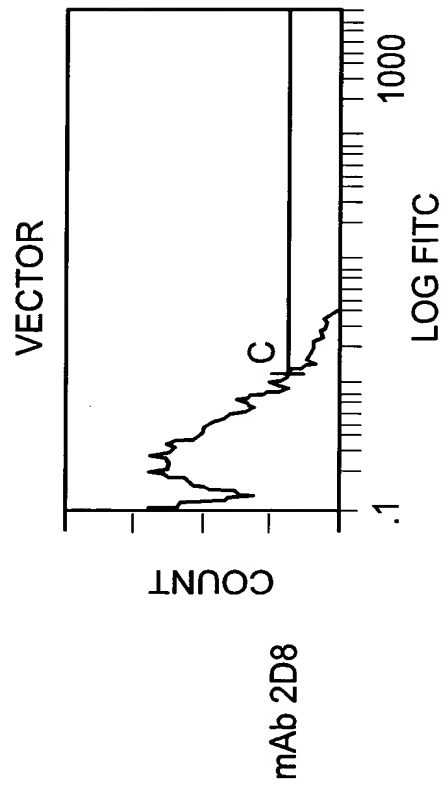
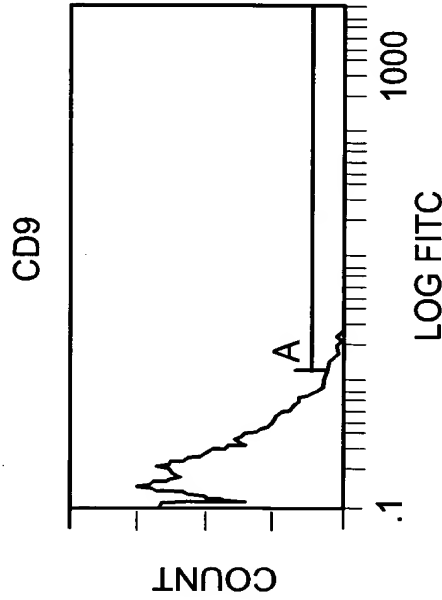
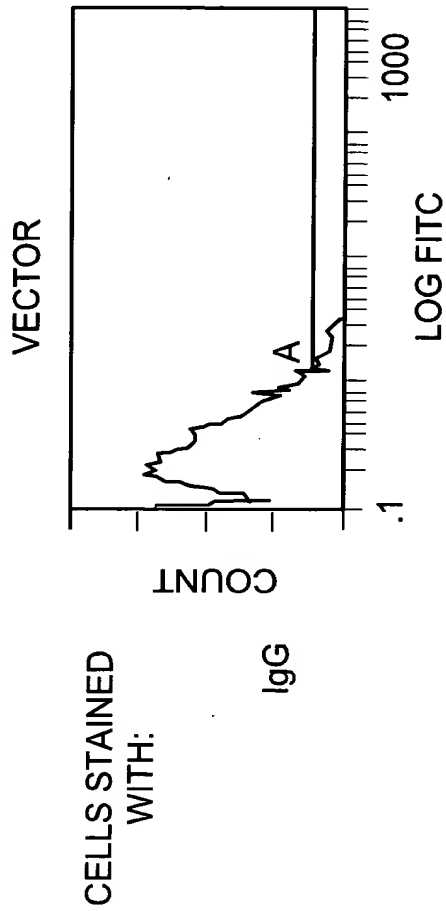


- #1: G19-4sp + IL-2
- #2: G19-4sp + 9.3
- #3: G19-4sp + EX5.3D10
- #4: G19-4sp + ES4.2D8
- #5: G19-4sp + 7G11
- #6: G19-4sp + 9.3 + ES4.2D8
- #7: G19-4sp + 9.3 + 7G11
- #8: G19-4sp + ES4 + 7G11

FIG. 17

APPROVED	O.G. FIG.	
	BY	CLASS
DRAFTSMAN		SUBCLASS

MOP CELLS TRANSFECTED WITH PLASMID ENCODING:



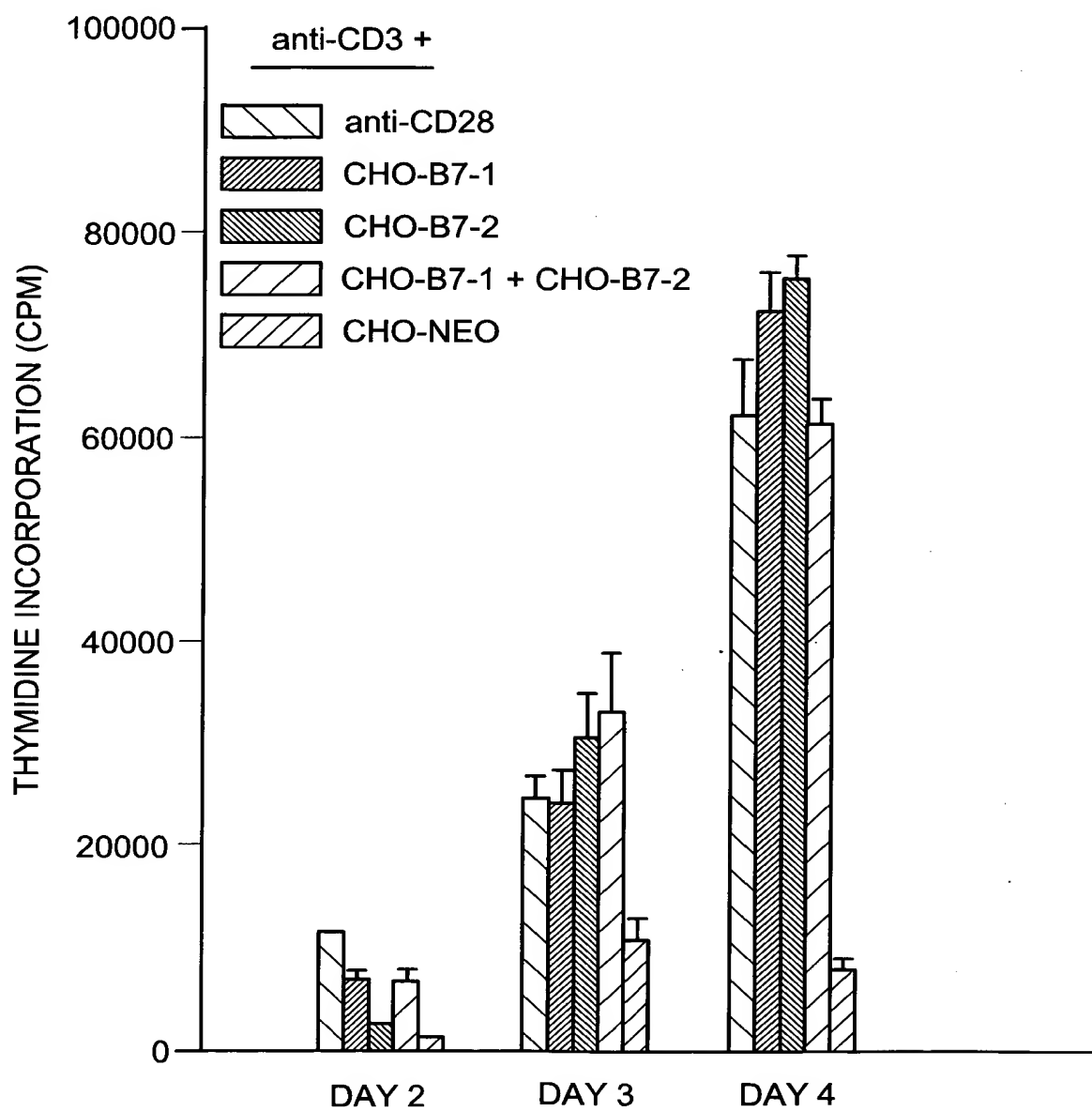
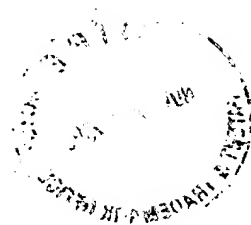


FIG. 19



APPROVED BY	O.G. FIG.	
	CLASS	SUBCLASS
DRAFTSMAN		

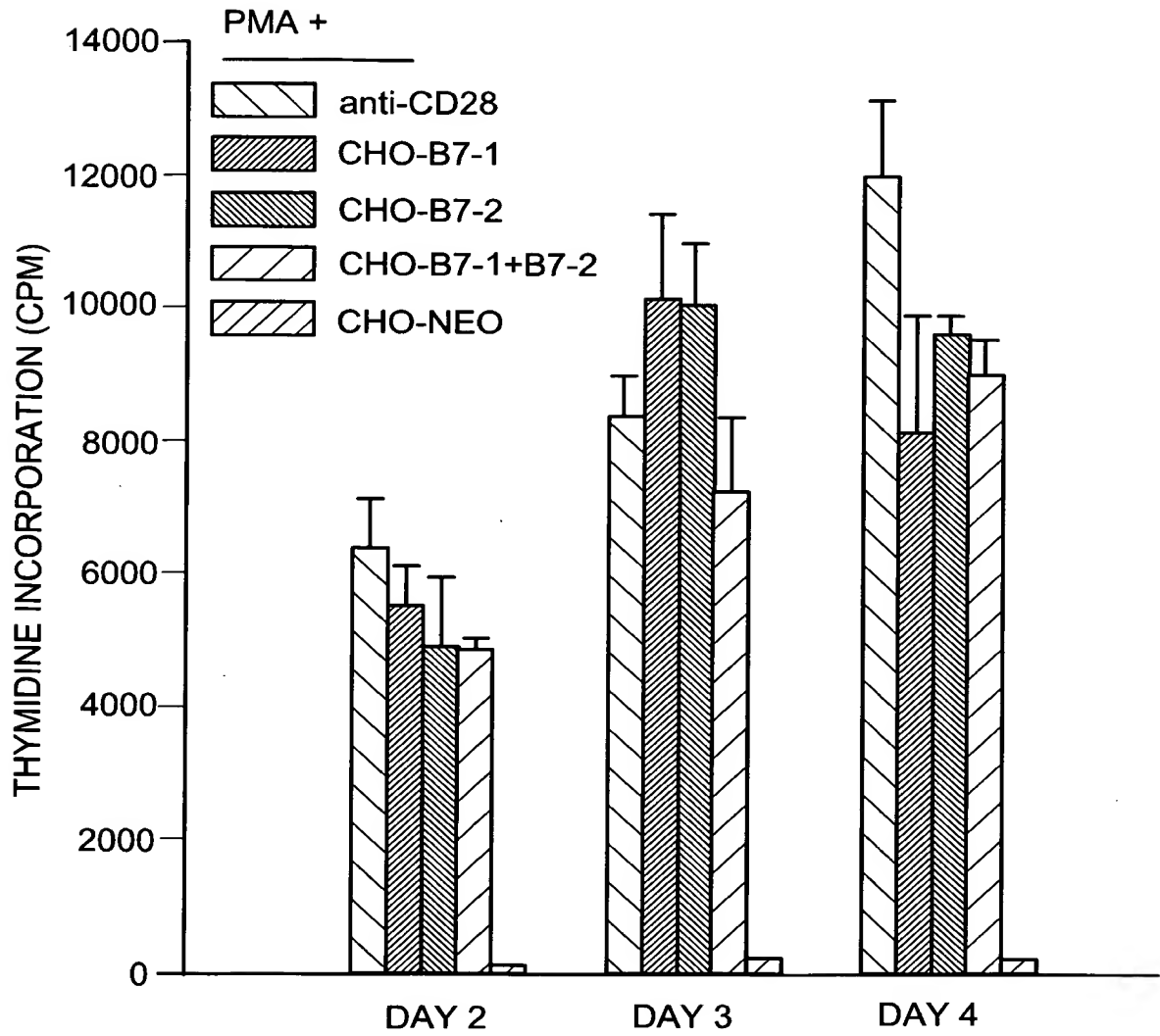


FIG. 20

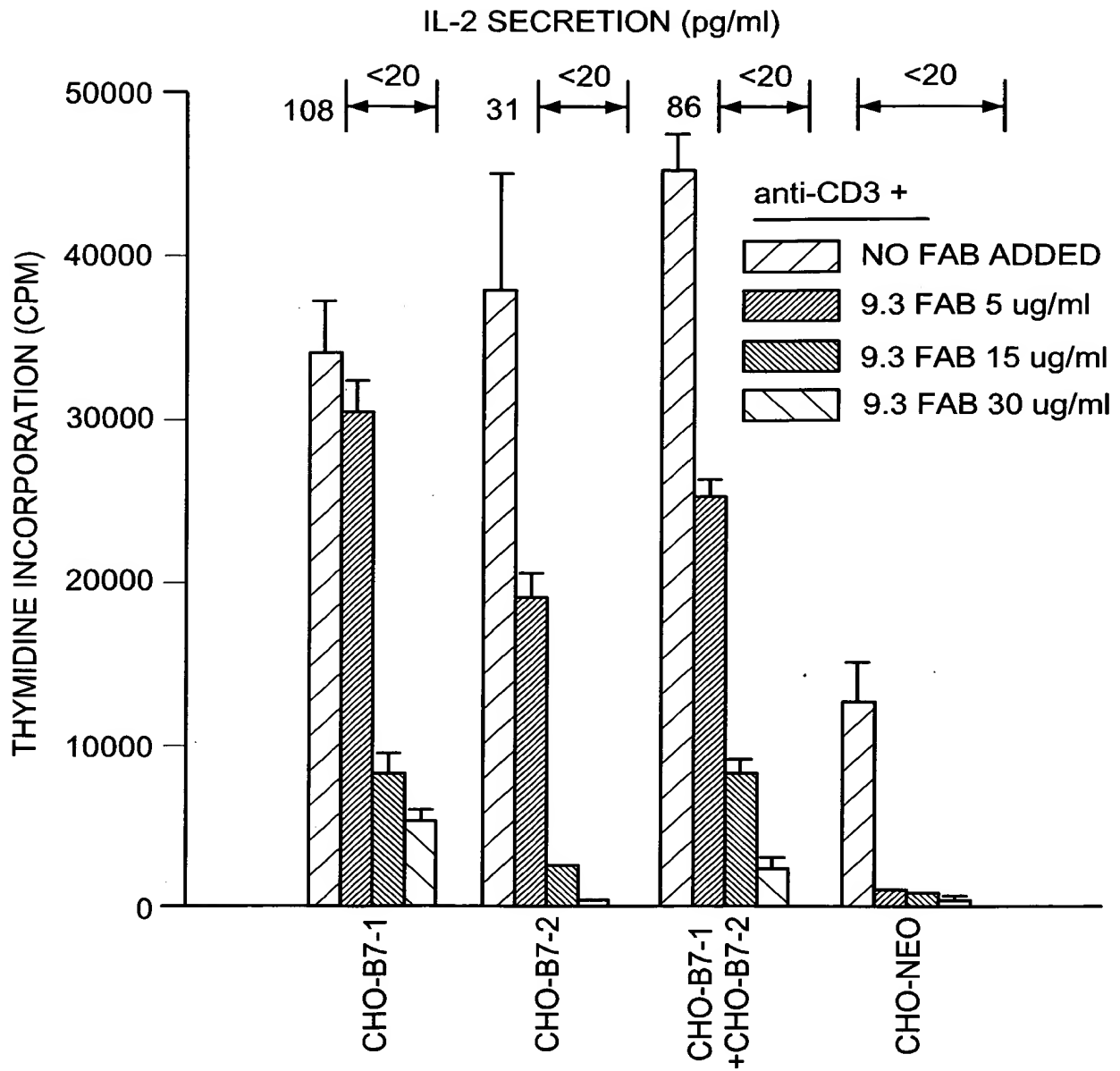


FIG. 21



APPROVED BY DRAFTSMAN	O.C. FIG.	
	CLASS	SUBCLASS

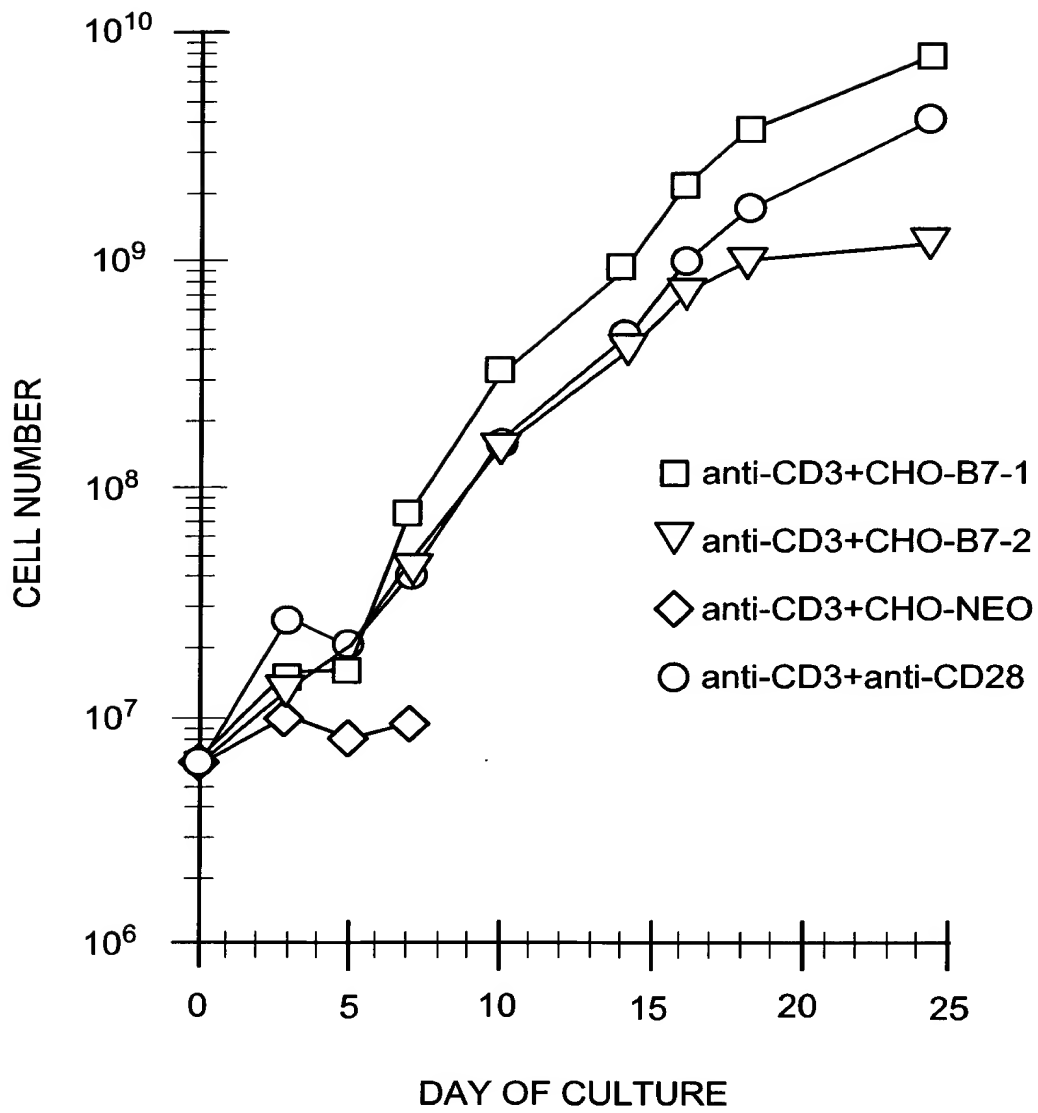


FIG. 22

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

△ OKT3 3b/c+CHO-hB72
 □ OKT3 3b/c+CHO-hB71
 ○ OKT3 3b/c+CHO-neo

CD4⁺ T CELLS

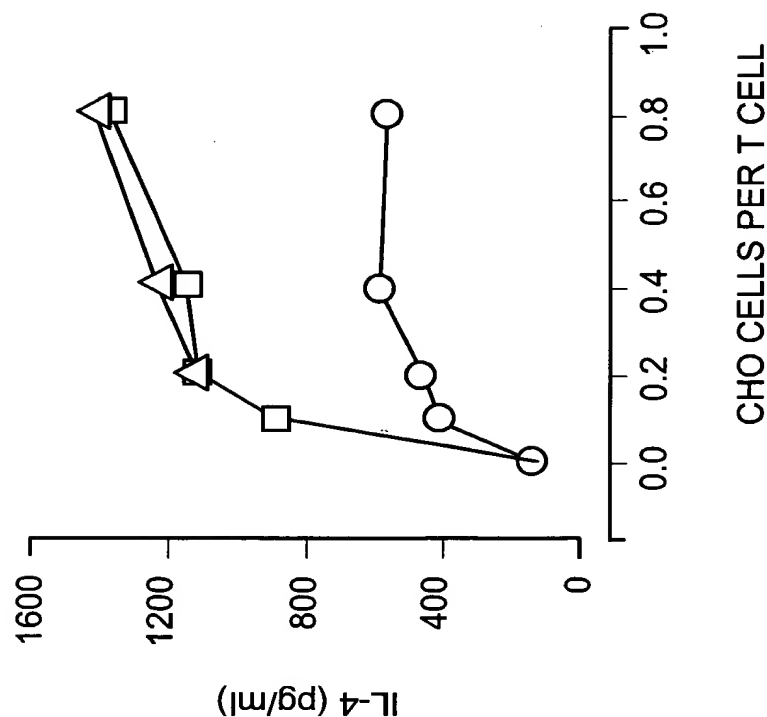


FIG. 23B

△ OKT3 3b/c+CHO-hB72
 □ OKT3 3b/c+CHO-hB71
 ○ OKT3 3b/c+CHO-neo

CD4⁺ T CELLS

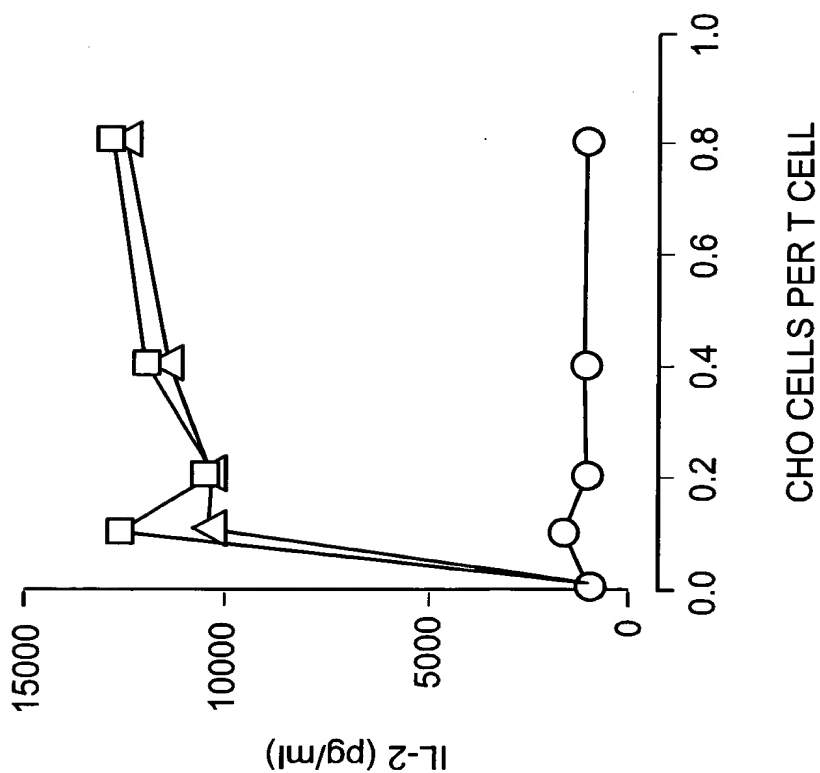


FIG. 23A



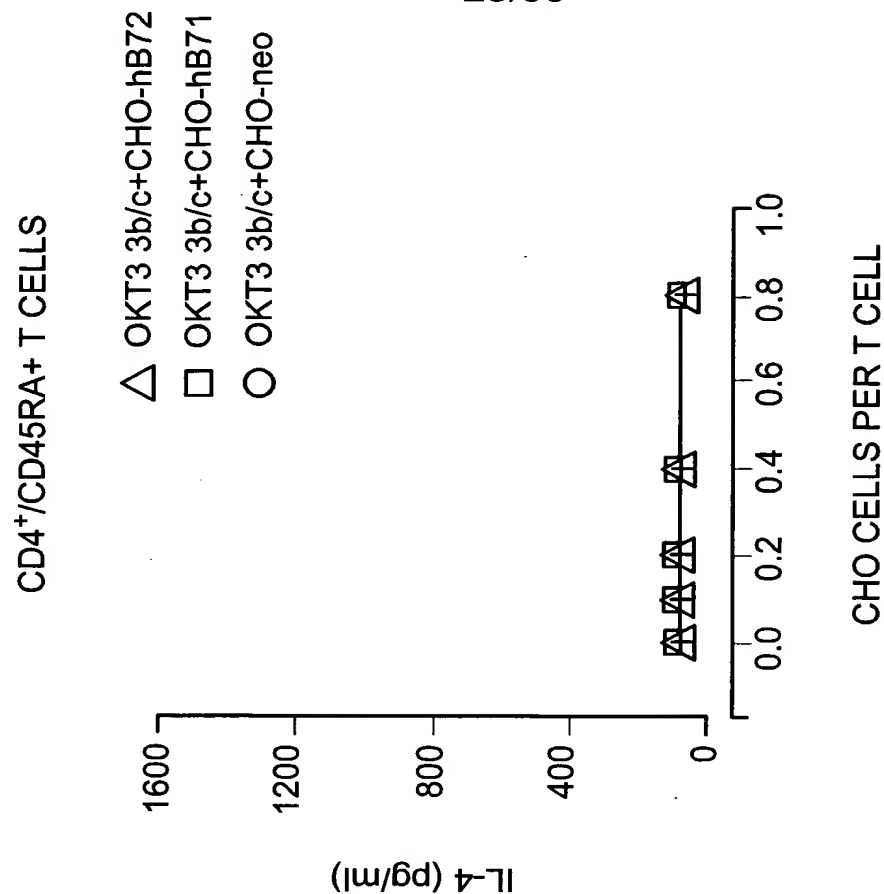


FIG. 23D

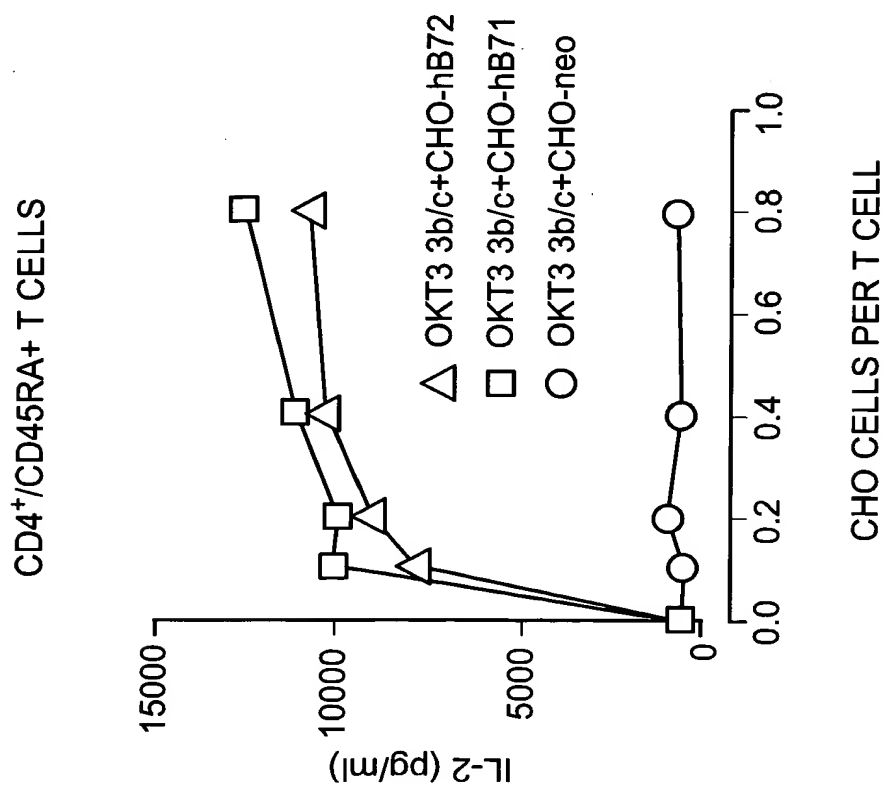
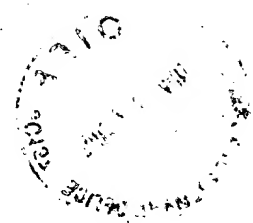


FIG. 23C



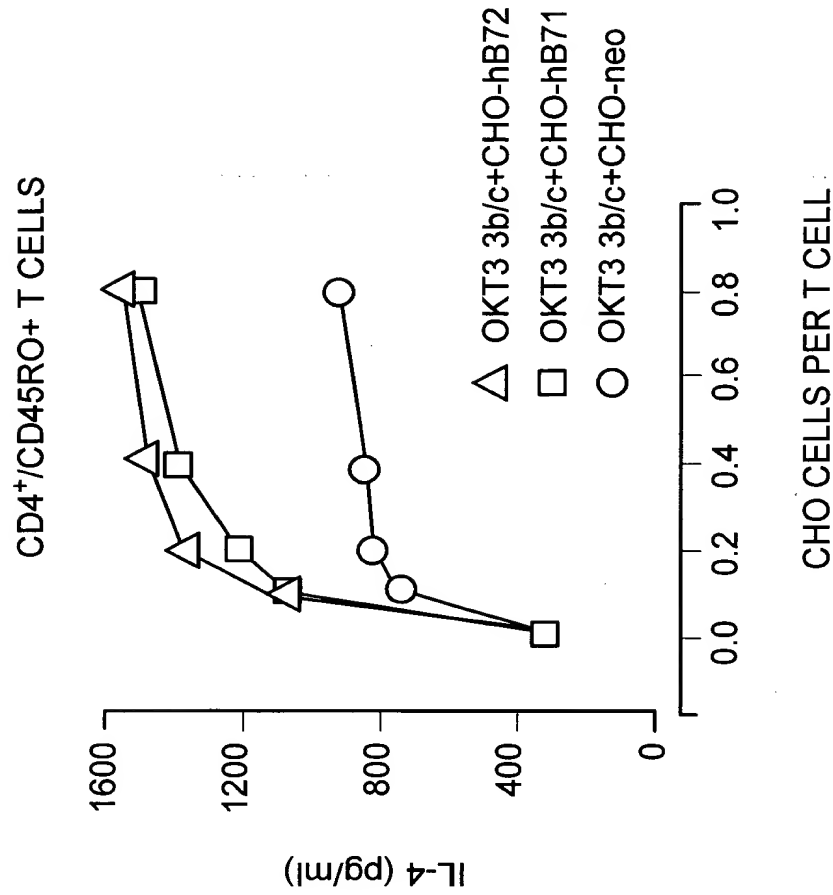


FIG. 23F

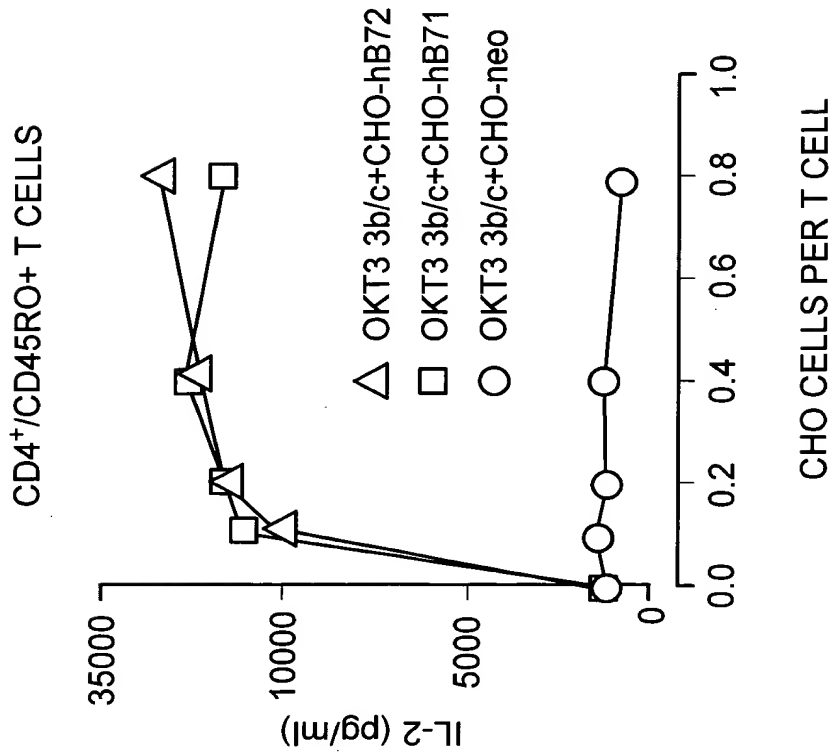


FIG. 23E

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

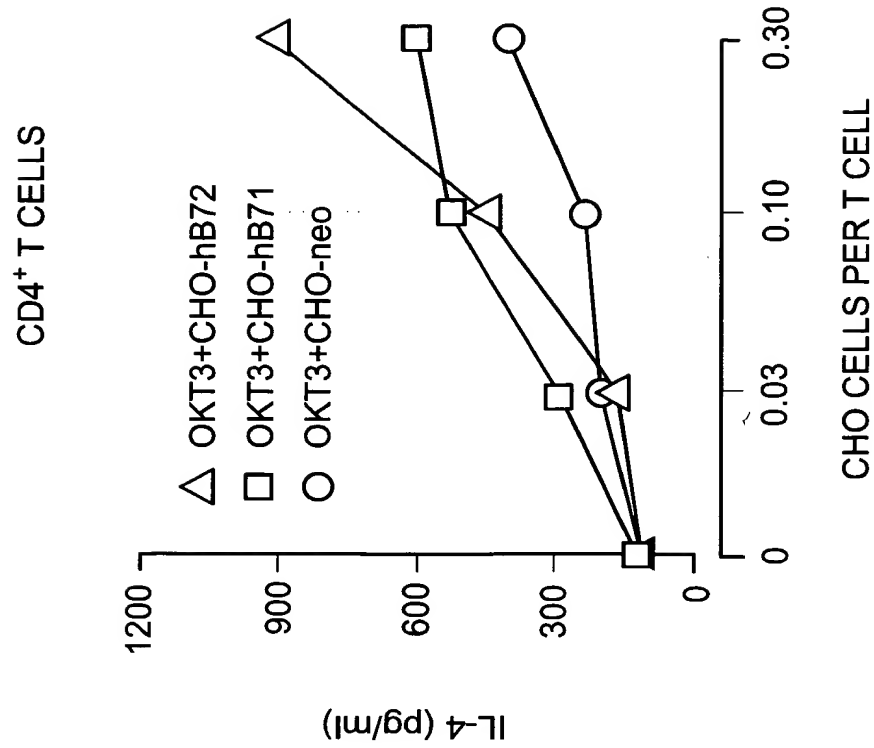


FIG. 24B

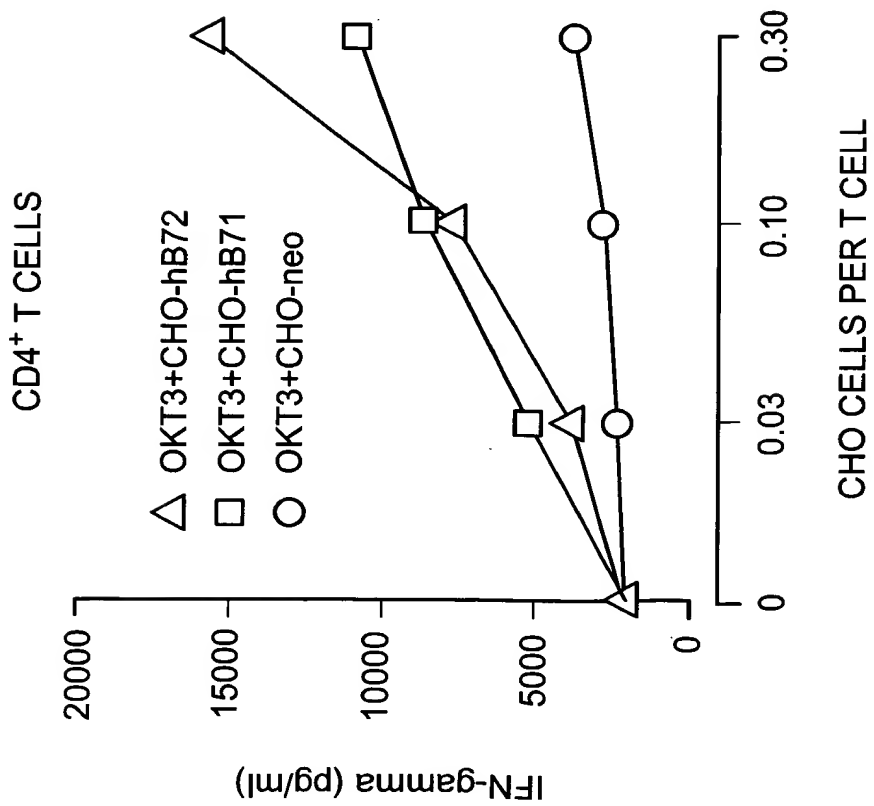
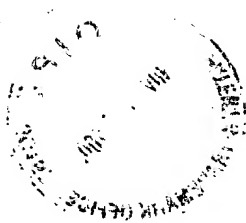


FIG. 24A



CD4⁺/CD45RA⁺T CELLS

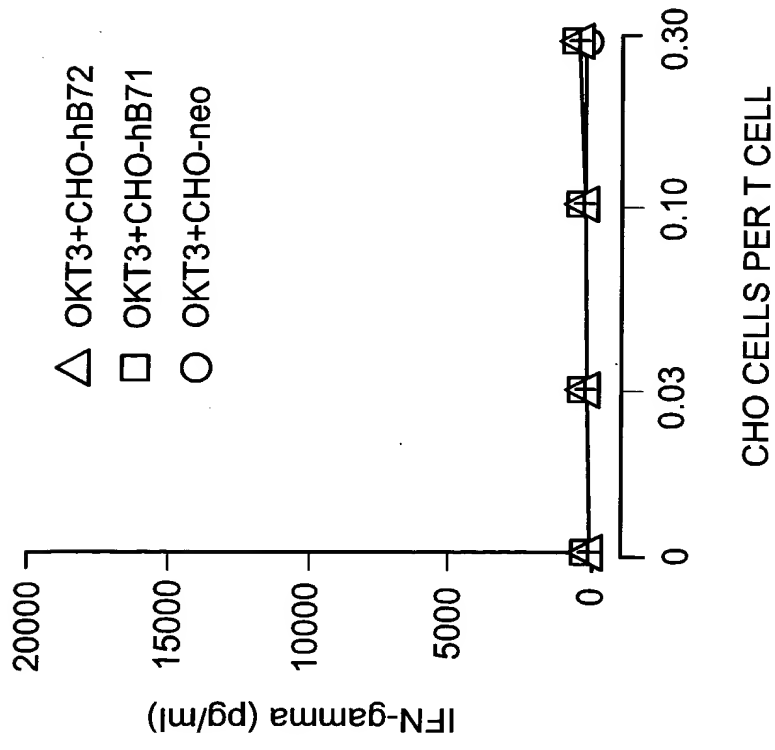


FIG. 24C

CD4⁺/CD45RA⁺T CELLS

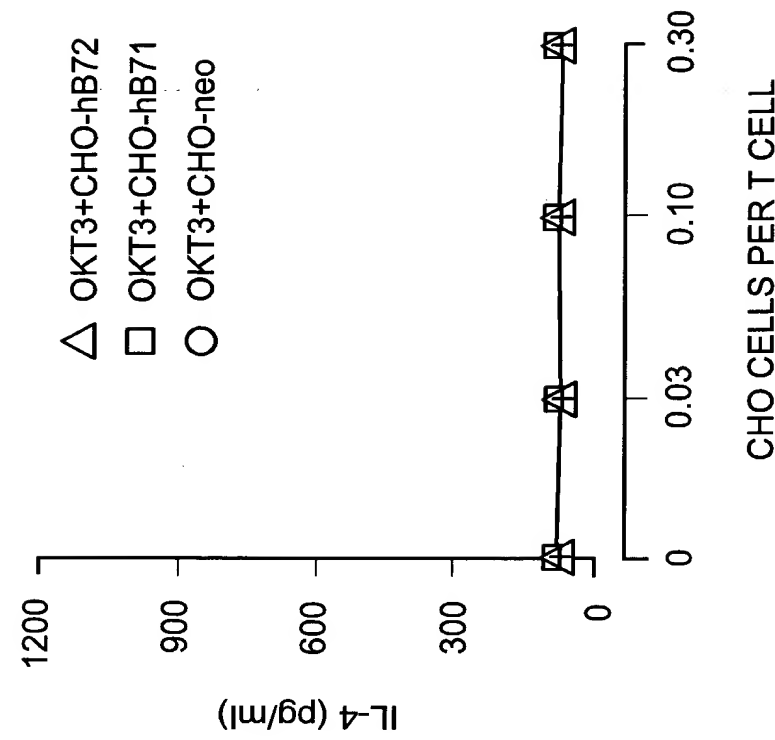


FIG. 24D

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

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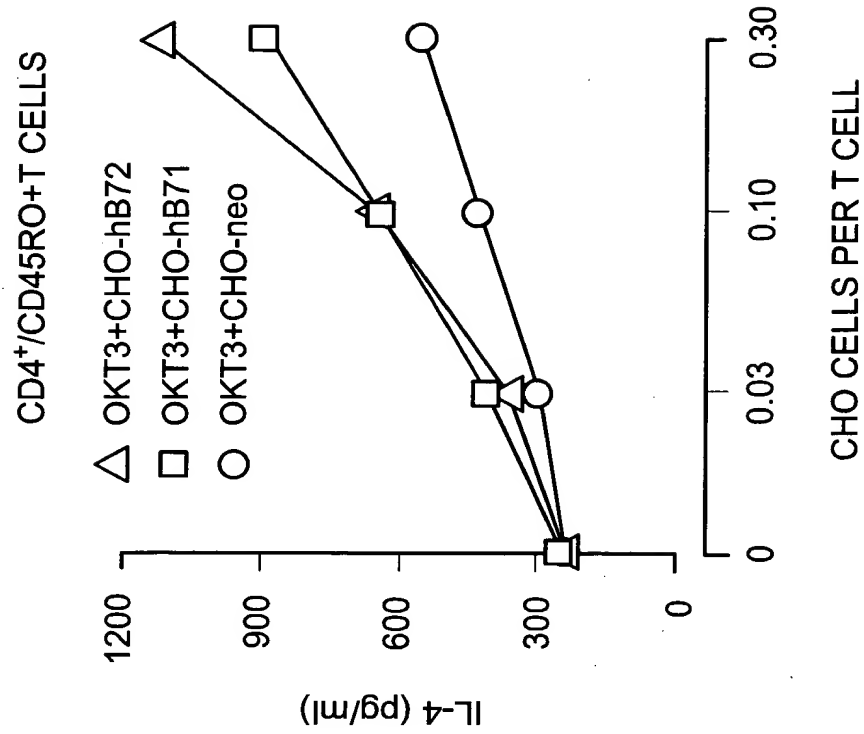


FIG. 24E

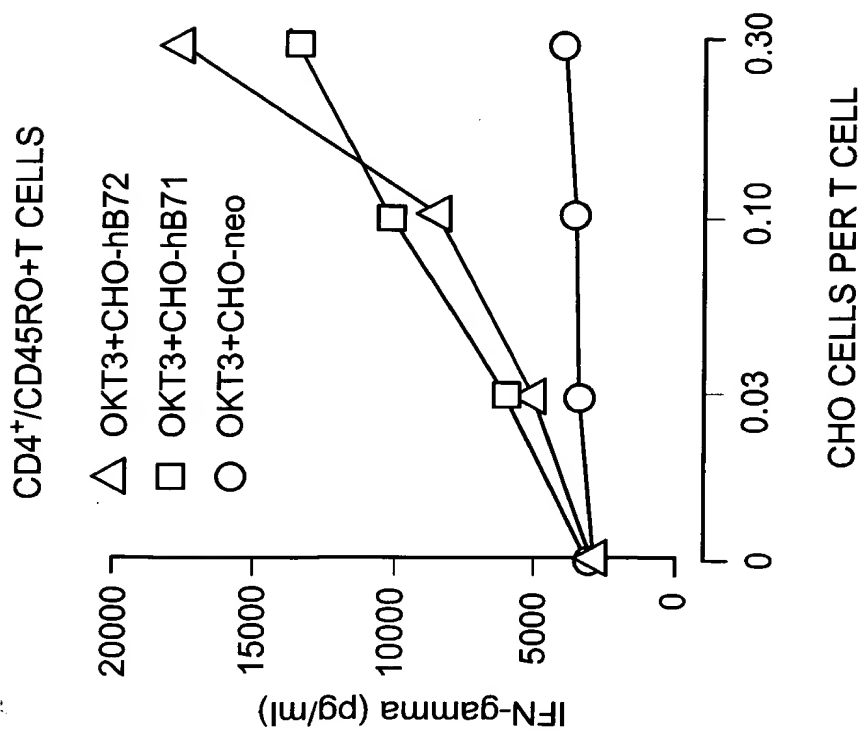


FIG. 24E





APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		

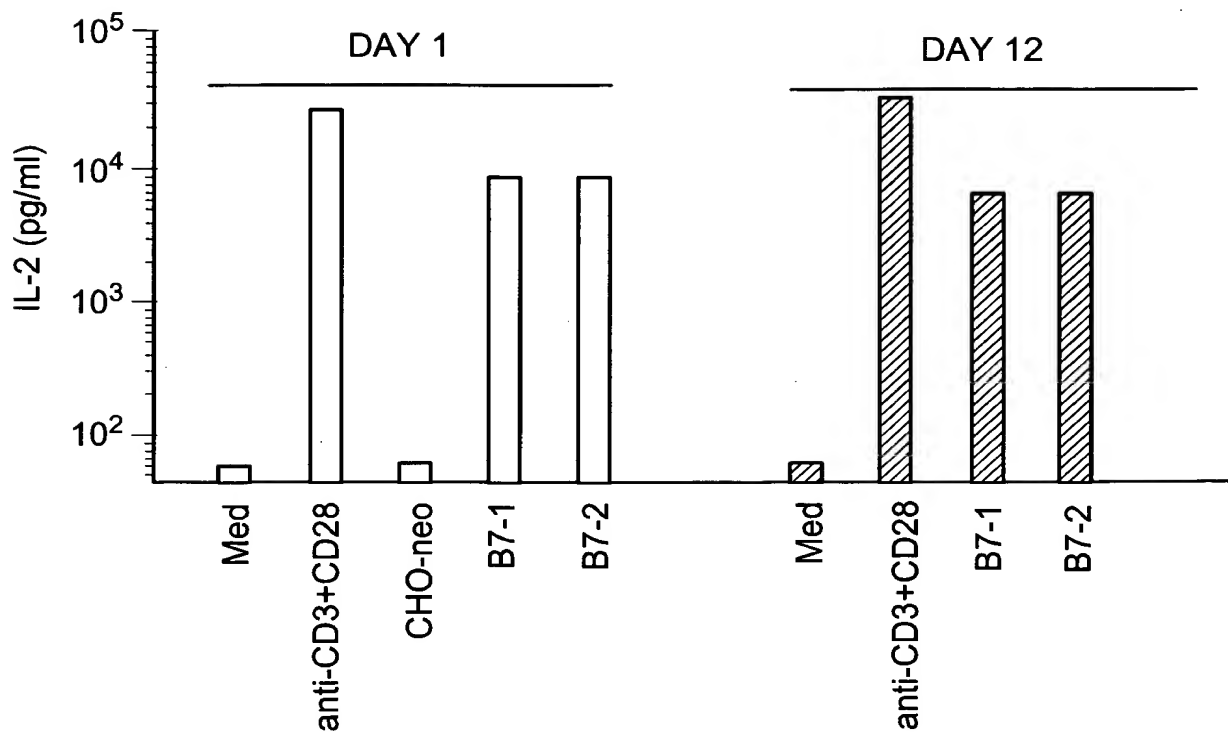


FIG. 25A

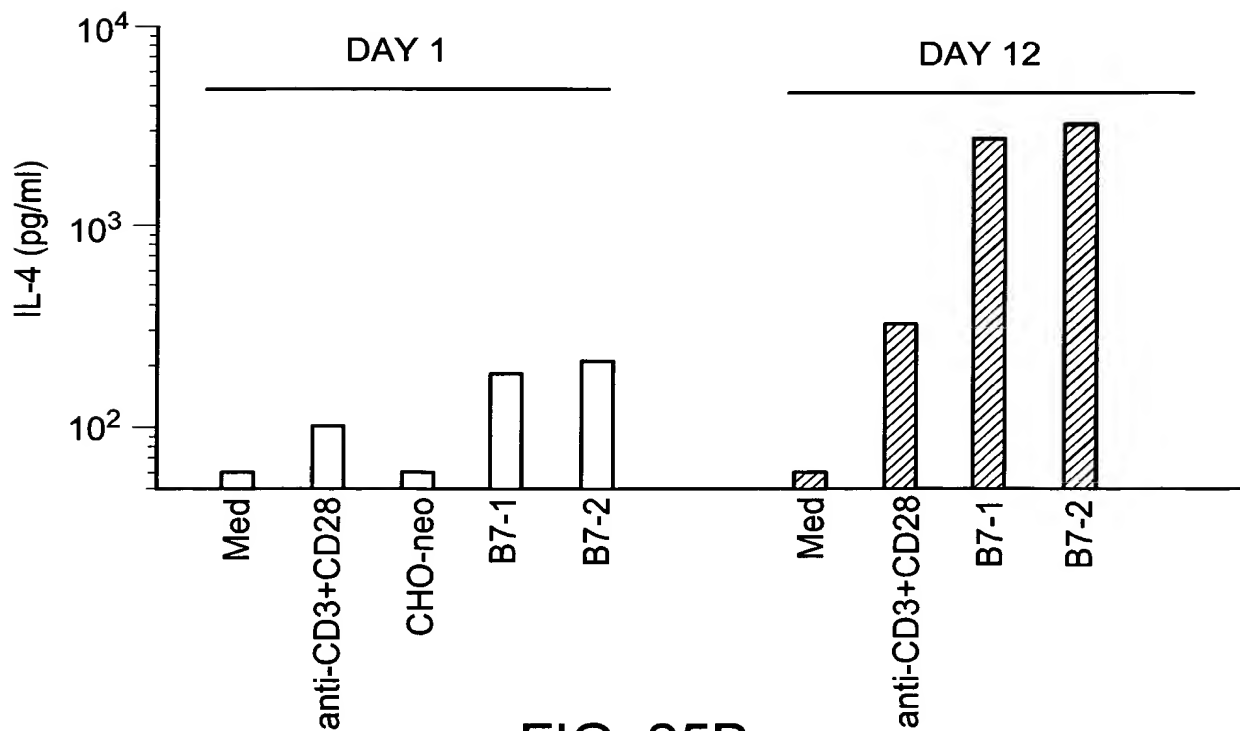
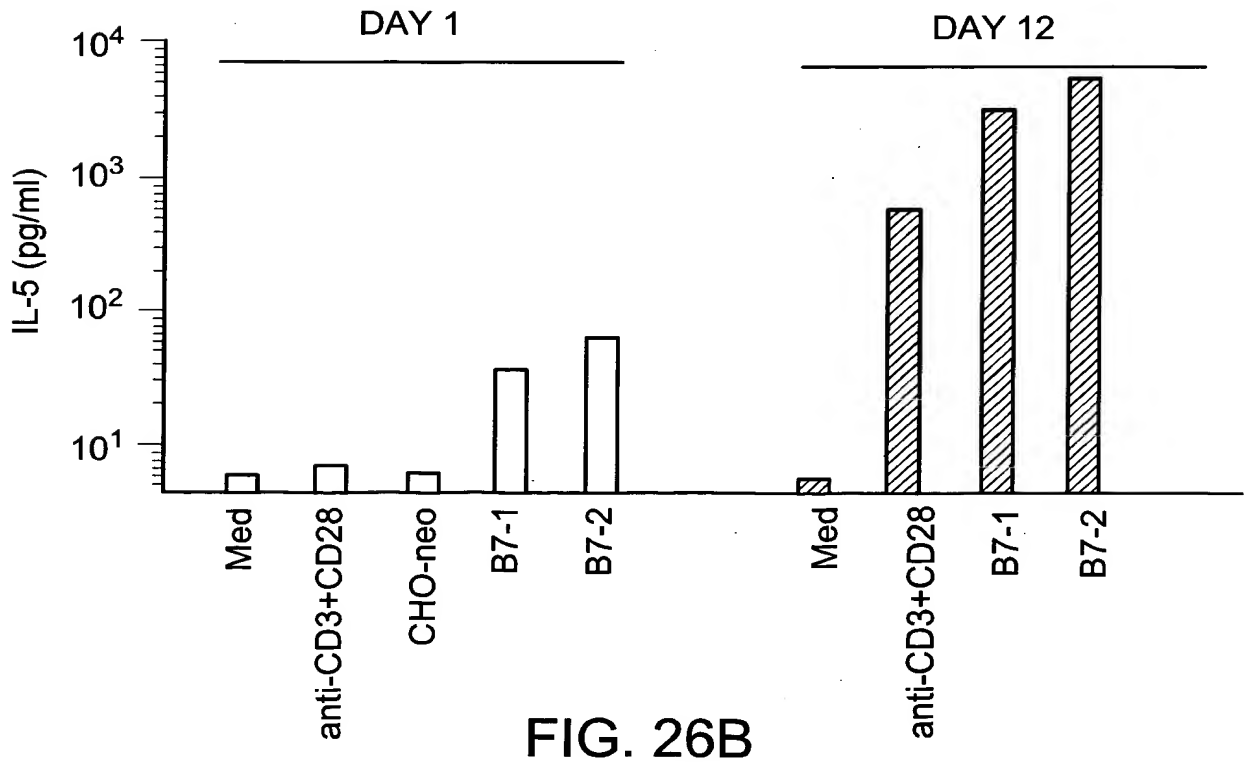
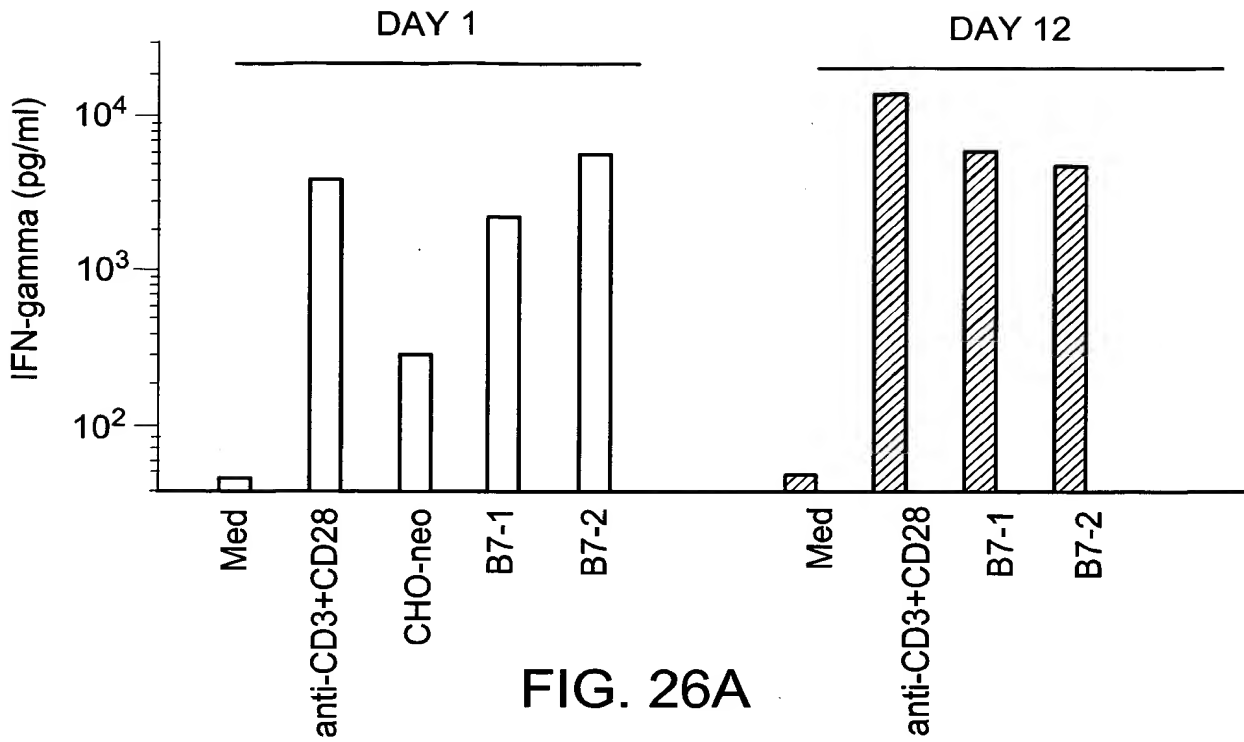


FIG. 25B



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

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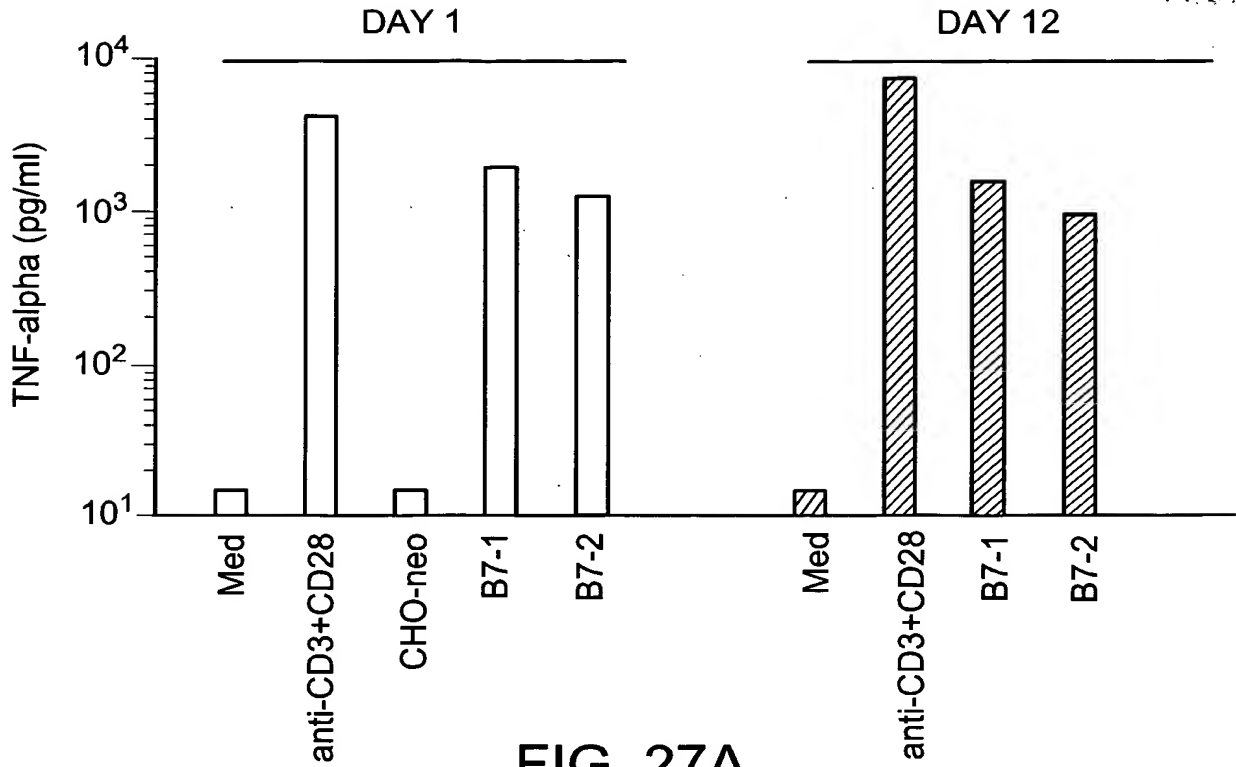


FIG. 27A

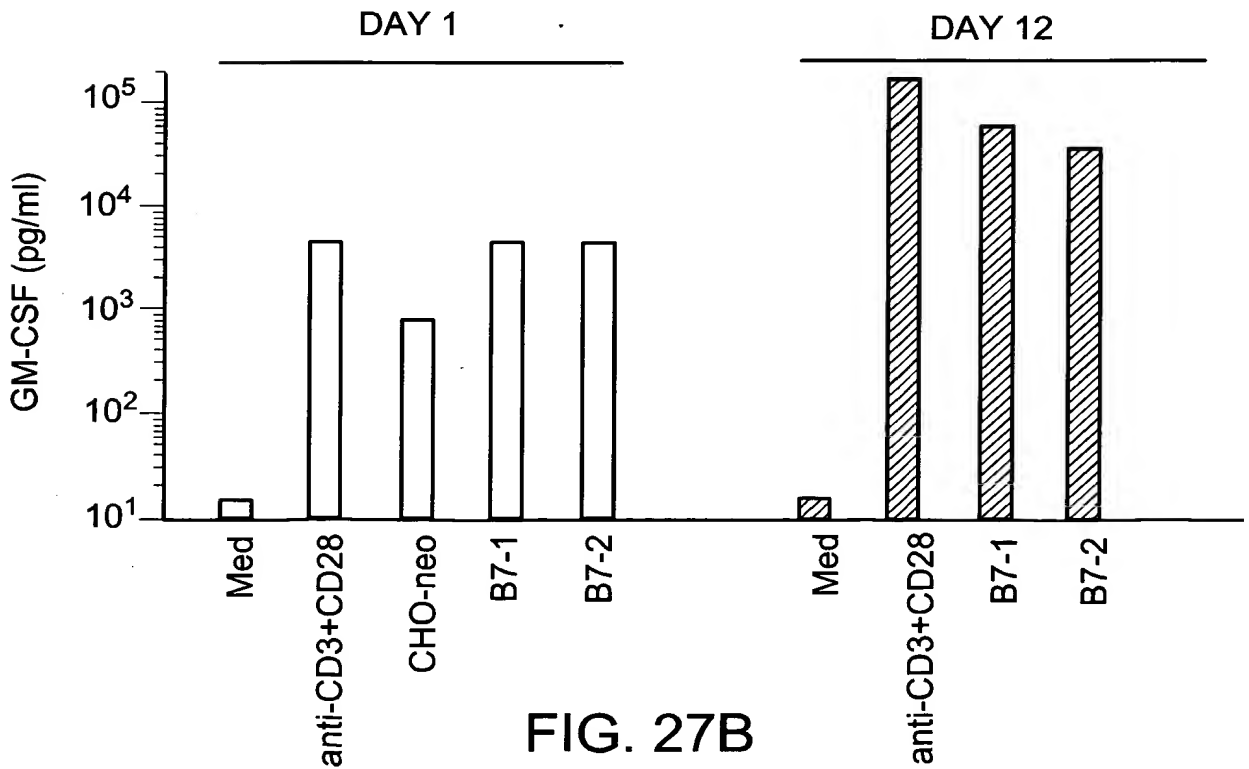


FIG. 27B

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

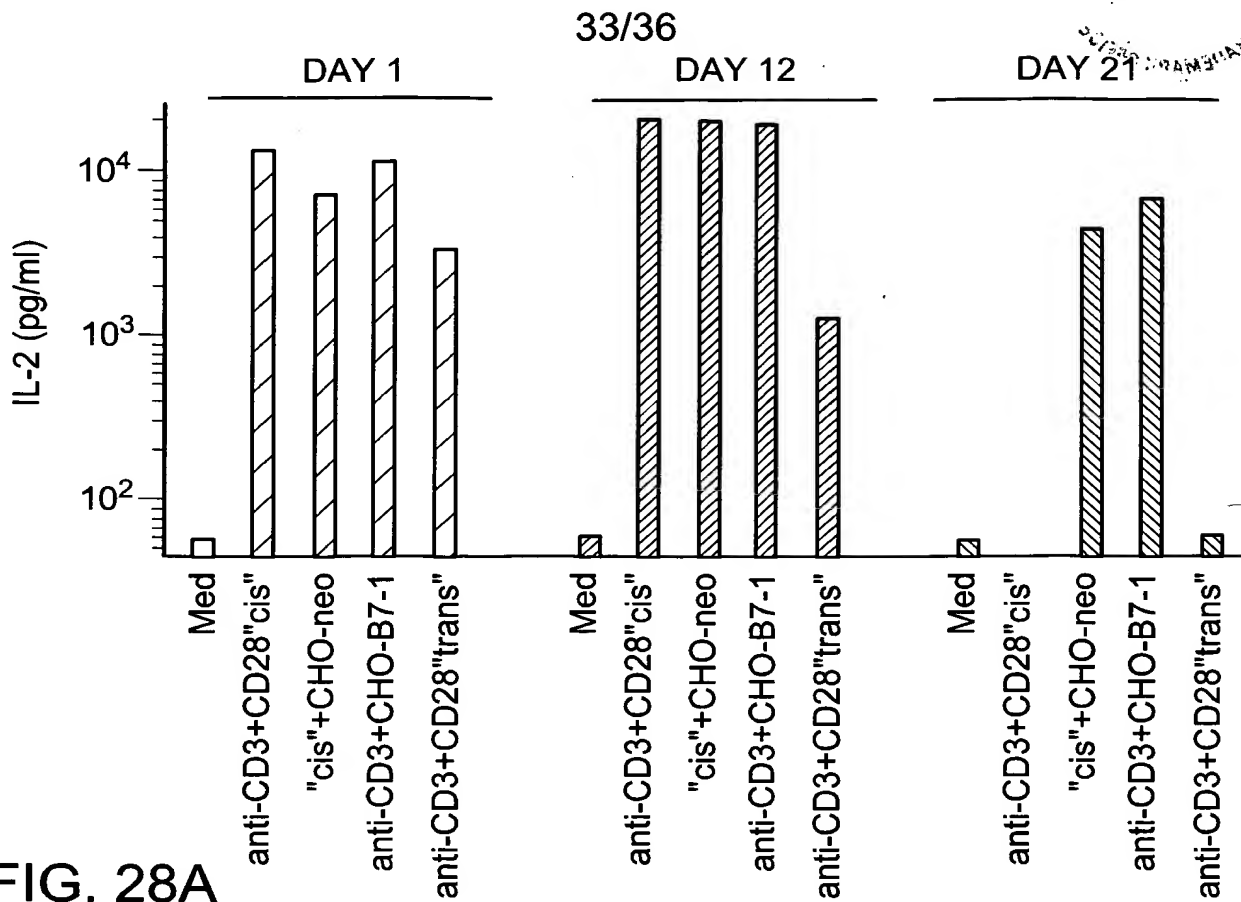


FIG. 28A

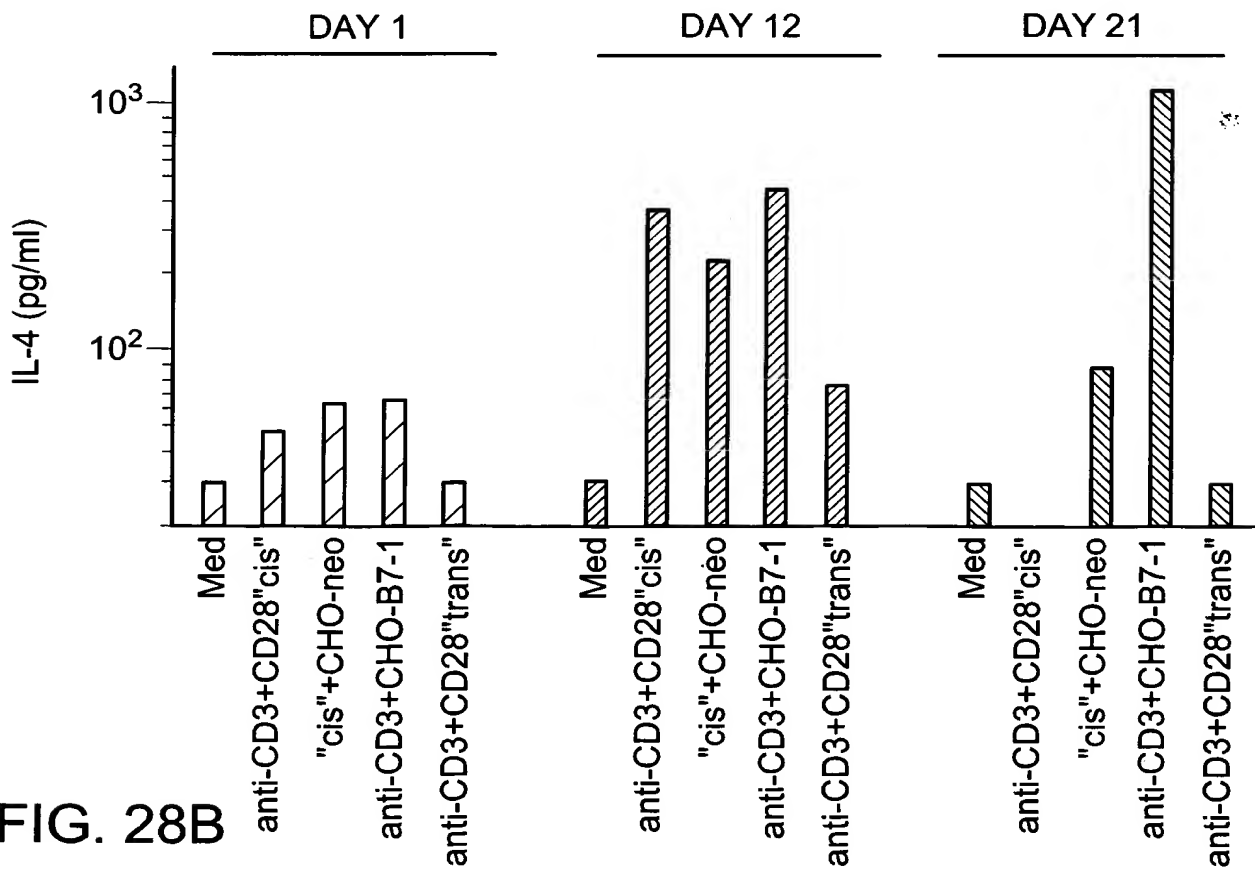
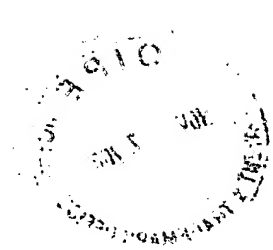


FIG. 28B



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

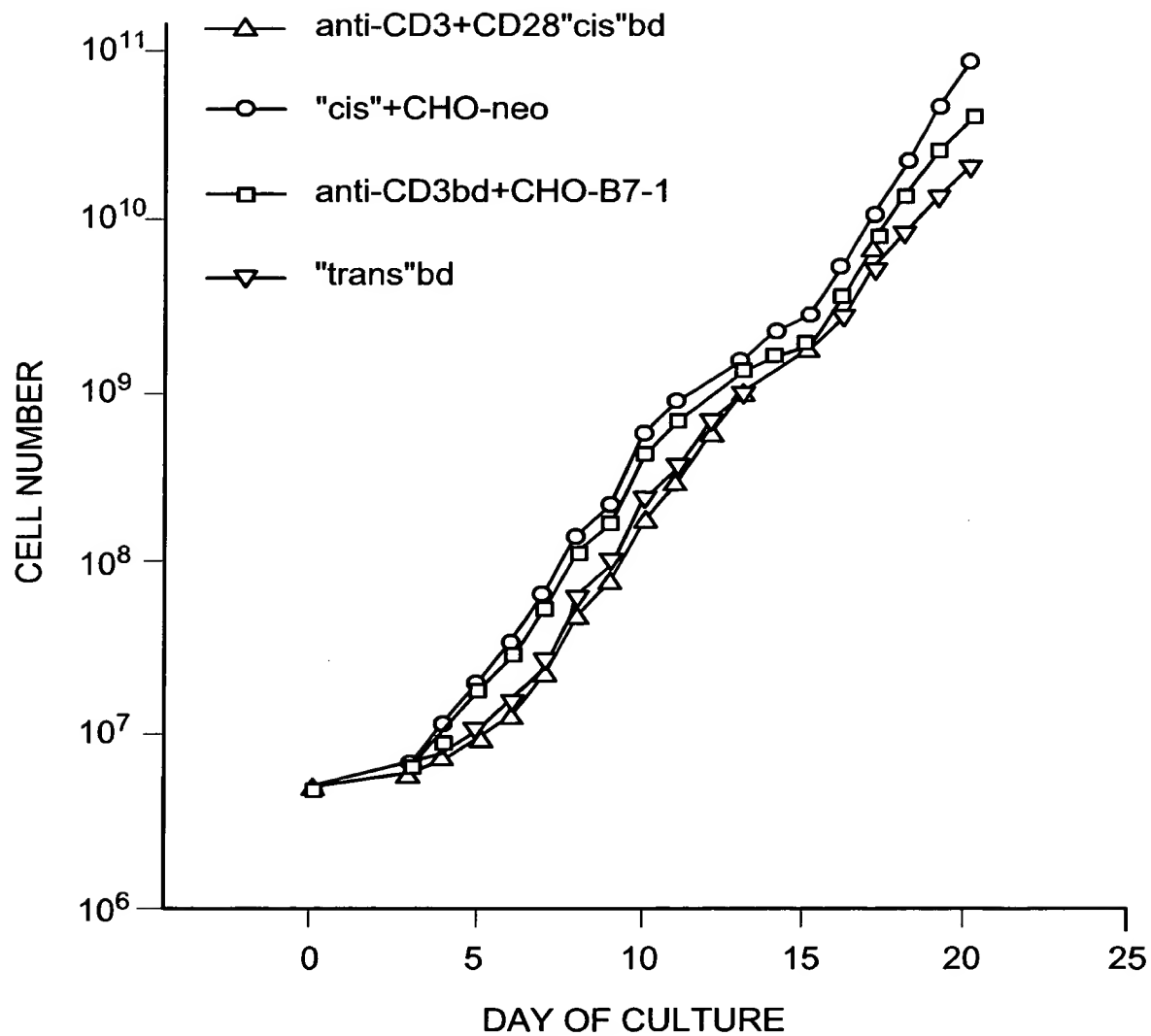


FIG. 29



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

HIV Pt#713814

—◇— A/D/N
□.... NO DRUG

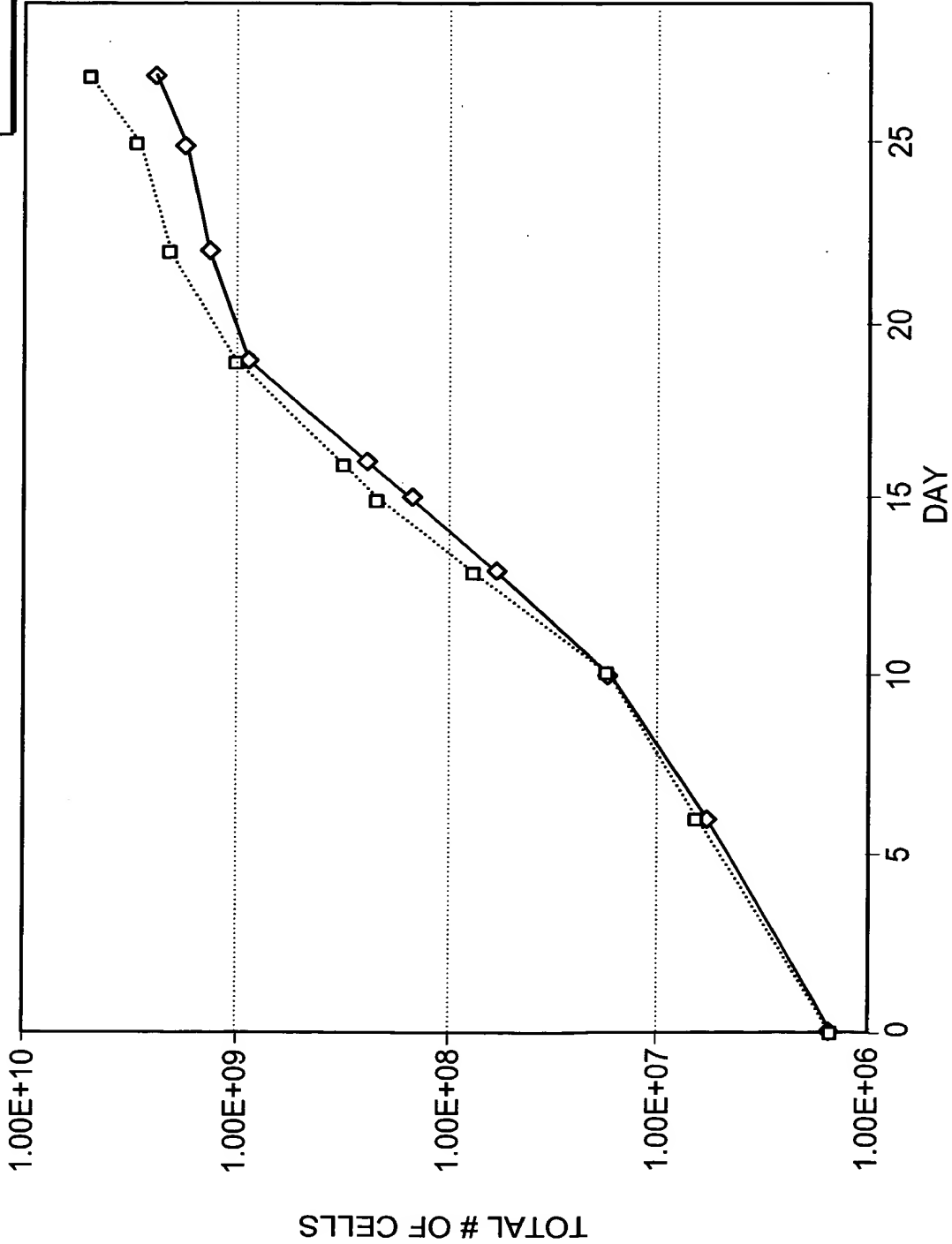
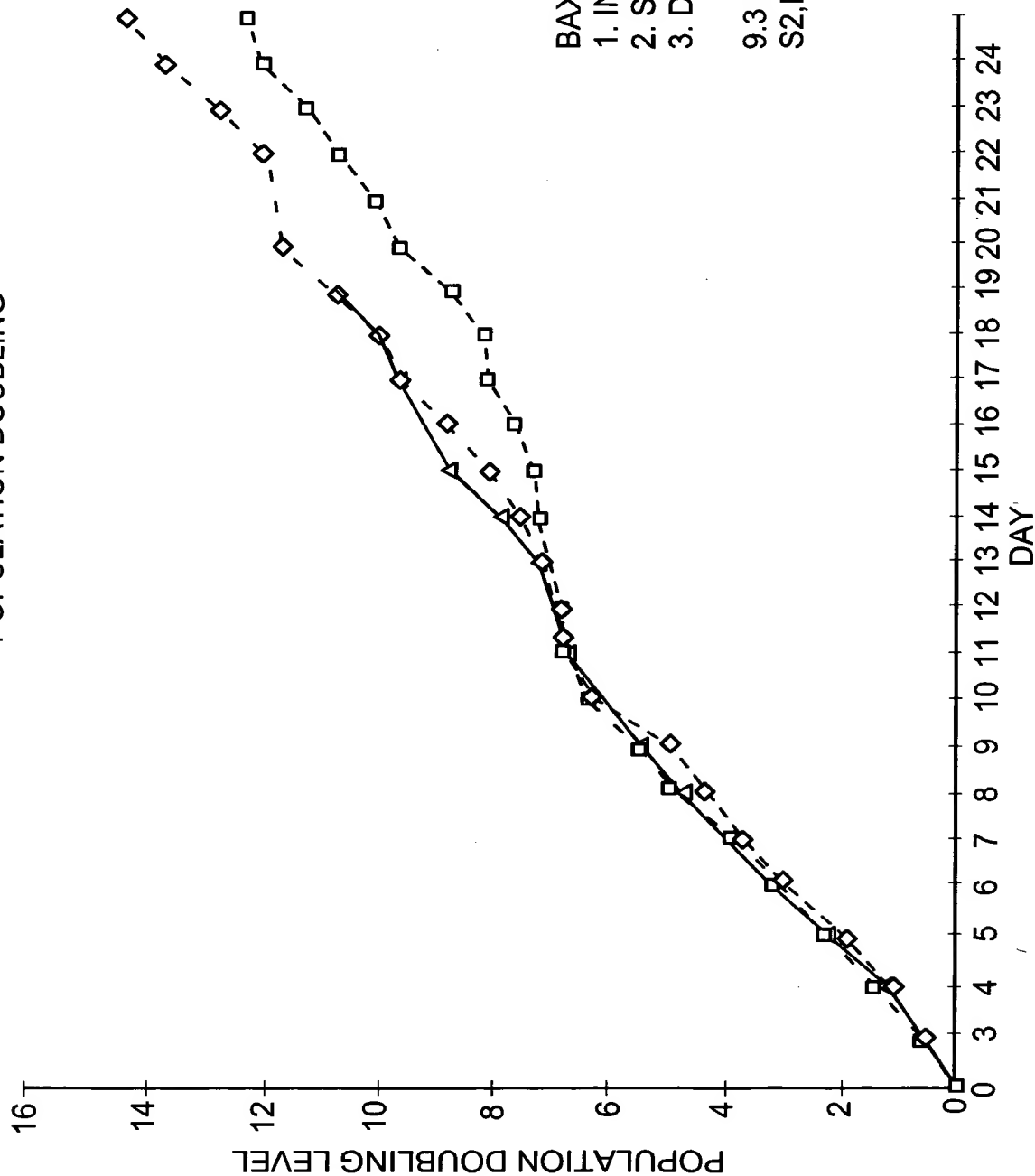


FIG. 30

O.G. FIG.		
APPROVED BY	CLASS	SUBCLASS
DRAFTSMAN		

POPULATION DOUBLING



-◇- OKT3+9.3
 -□- OKT3+IL-2
 -△- BAXTER

BAXTER:
 1. IN BAGS SINCE DAY 6
 2. S2D0 = DAY11
 3. DAY 19 = 2.4E+10
 9.3 & IL-2:
 S2,D0 = DAY 12

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FIG. 31

